



SEQUENCE LISTING

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<120> Nucleotide and Deduced Amino Acid Sequences of the
Envelope 1 and Core Genes of Isolates of Hepatitis C
Virus and the use of Reagents Derived From These
Sequences in Diagnostic Methods and Vaccines

<130> 20264116US2

<140> 09/084,691

<141> 1998-05-26

<150> 08/290,665

<151> 1994-08-15

<150> 08/086,428

<151> 1993-06-29

<160> 274

<170> PatentIn Ver. 2.1

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<213> Homo sapiens

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<223> Individual Isolate: P10

<400> 18

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<212> DNA

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ctgattgtga tgctactctt tgccggcggt gacggg 576

```

<210> 21

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 21

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tatgaagtgc gcaacgtgtc cgggatgtac catgtcacga acgactgtc caactcaagc 60
atttgtgtatg aggcagcgga catgatcatg cacaccccgc ggtgcggtgcc ctgctgttcgg 120
gagaacaact cctcccgttg ctgggttagcg ctcactccca cgctcgcggc caggaactcc 180
agcgtcccca ctacgacaat acgacgccac gtcgatttgc tcgttggggc ggctgctttc 240
tgctccgcca tgtacgtggg ggacctctgc ggatctgttt tccttgcttc ccagctgttc 300
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cgcgtaacag gtcaccgcat ggcttgggat atgatgatga actggtcacc tacaacagct 420
ctagtagtat cgcagttact ccggatccca caagctatcg tggacatggg ggcgggggcc 480
cactggggag tcctagcggg ccttgccctac tattccatgg tggggaactg ggctaagggt 540
ttgattgtta tgctactctt tgccggcggt gacggg 576

```

<210> 22

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SW2

<400> 22

```

tatgaagtgc gcaacgtgtc cggggtgtat catgtcacga acgactgttc caactcaagc 60
atttgtgtatg agacagcgga catgatcatg cataaccccgc ggtgcggtgcc ctgctgttcgg 120
gaggccaact cctcccgttg ctgggttagcg ctcactccca cgctagcagc caggaacacc 180
agcgtcccca ctacgacaat acgacgccac gtcgatttgc tcgttggggc ggctgctttc 240
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actttttcac ctgcccggca cgagacagta caggactgca actgttccat ctatcccggc 360
cacgtatcag gtcaccgcat ggcttgggac atgatgatga actggtcacc tacagcagcc 420

```

```

ctggtggtat cgcagttact ccggatccca caagctgtcg tggacatggt agcggggggcc 480
cactggggag tcctggcggg ccttgcatac tattccatgg tggggaactg ggctaagggtt 540
ttgattgtga tgctactctt tgctggcggt gacggg 576

```

<210> 23

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 23

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tacgaagtgc gcaacgtgtc cggggtgtac tatgtcacga acgactgttc caactcaagc 60
atttgtgtatg agacagcgga catgatcatg cacaccctg ggtgcgtgcc ctgcttcgg 120
gagagcaatt cctcccgctg ctgggtagcg cttactccca cgctcgcggc caggaacgcc 180
agcgtcccca ctaagacaat acgacgtcac gtcgacttgc tcgttggggc ggctgctttc 240
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cacgtaacag gtcaccgtat ggcttgggat atgatgatga actggtcgcc cacaacggca 420
ctagtgggtgt cgcagttgct ccggatccca caagctgtcg tggacatggt ggcgggggcc 480
cactggggag tcctggcggg ccttgcctac tattccatgg tggggaactg ggctaagggtt 540
ttgattgtgc tgctactctt tgccggcggt gatggg 576

```

<210> 24

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T10

<400> 24

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tatgaagtgc gcaacgtgtc cgggatgtac catgtcacga acgactgttc caactcaagc 60
atttgtgttg aggcagcgga cttgatcatg cacaccccg ggtgcgtgcc ctgcttcgg 120
gagggcaact cctcccgctg ctgggtagcg ctcactccca cgctcgcggc caggaacacc 180
agcgtcccca ctacgacgat acgacgccat gtcgatttgc tcgttggggc ggctgctttc 240
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catctgtcag gtcaccgat ggcttgggac atgatgatga actggtcgcc tacaacagct 420
ctagtgggtgt cgcagttact ccggatccca caagctgtca tggacatggt gacagggggc 480
cactggggag tcctggcggg ccttgcctac tattccatgg cggggaactg ggctaagggtt 540
ttaattgtga tgctactctt tgccggcggt gatggg 576

```

<210> 25

<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 25
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gagaacaatt cctcccgtg ctgggtagcg ctactccca cgctcgcggc caggaacgct 180
agcgtcccca ctacgacaat acgacgccac gtcgatttgc tcgttggggc ggctactttc 240
tgctccgcta tgtacgtggg ggacctctgc gggtcggtt tcctcatctc ccagctgttc 300
accttctcgc ctgcgcagca tgagacagta caggactgca attgttcaat ctatcccggc 360
cacgtatcag gtcaccgcat ggcttgggat atgatgatga attggtcacc tacagcagcc 420
ctagtgggat cgcagttact ccgatccca caagctgtca tggacatggg ggccggggcc 480
cactggggag tcctggcggg ccttgccctac tattccatgg tggggaactg ggctaagggt 540
ctgatttgtg tgctactctt tgccggcggt gacggg 576

<210> 26
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T2

<400> 26
gccccagtga ggaacaccag ccgcgggttac atgggtgacta acgactgttc caatgagagc 60
atcacctggc agctccaagc ccgcggttctc cacgtccccg ggtgtatccc gtgtgagagg 120
ctgggaaata catcccgatg ctggataccg gtcacaccaa acgtggccgt gcggcagccc 180
ggcgtcttta cgcagggctt gcggacgcac atcgacatgg ttgtgatgtc cgccacgctc 240
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accatcactg gacaccgtat ggcatgggac atgatgatga actggtcgcc cacagccacc 420
atgatectgg cgtacgcgat gcgcgttccc gaggtcatca tagacatcat cggcgggggt 480
cactggggcg tcatgtttgg cttggcctac ttctctatgc agggagcgtg ggcgaagggt 540
attgtcatcc tcttgctggc tgctgggggt gacgcg 576

<210> 27
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T4

<400> 27

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gcacaagtga agaacaccac taacagctac atggtgacca acgactgttc taatgacagc 60
atcacttggc agctccaggc cgcggtcctc cacgtccccg ggtgtgtccc gtgcgagaaa 120
acgggaaata catctcgggtg ctggataccg gtttcaccaa acgtggccgt gcggcagccc 180
ggcgccctca cgcagggcctt gcggacgcac attgacatgg ttgtgatgtc cgccacgctc 240
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atcgtctcgc cgcaacatca ctggtttgtg caagactgca attgctctat ctaccctggc 360
accatcactg gacaccgtat ggcatgggat atgatgatga actggtcgcc cacggccacc 420
atgatcctgg cgtacgcgat gcgcgttccc gaggtcatct tagacatcgt tagcggggca 480
cactggggcg tcatgttcgg cttggcctac ttctctatgc agggagcgtg ggcgaaagtc 540
gttgtcatcc ttctgtctggc cgctgggggtg gacgcg 576
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<210> 28

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 28

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gccgaagtga agaacaccag taccagctac atggtgacaa atgactgttc caacgacagc 60
atcacctggc aactccaggc cgcggtcctc cacgtccccg ggtgcgtccc gtgcgagaga 120
gttggaacag cgtcgcgggtg ctggataccg gtctcgccaa acgtagctgt gcagcggcct 180
ggcgccctca cgcagggcctt gcggacgcac atcgacatgg ttgtgatgtc cgccacgctc 240
tgctccgctc tctacgtggg ggatctctgc ggcggggtaa tgctcgcgc tcagatgttc 300
attatctcgc cgcagcacca ctggtttgtg caggaatgca actgctccat ttaccctggc 360
accatcactg gacaccgtat ggcatgggac atgatgatga actggtcgcc cacaaccacc 420
atgatcttgg cgtacgcgat gcgcgttccc gaggtcatca tagacatcat cagcggagct 480
cactggggcg tcatgttcgg cctagcctac ttctctatgc agggagcgtg ggcgaaagtc 540
gttgtcatcc tgttgtctac cgctggcggtg gacgcg 576
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<210> 29

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 29

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gtccaagtga aaaacaccag taccagctat atggtgacca atgactgttc caacgacagc 60
atcacttggc aacttgaggc tgcggtcctc cacgttcccc ggtgtgtccc gtgcgagaaa 120
gtgggaaata catctcgggtg ctggataccg gtctcaccaa atgtggccgt gcagcggcct 180
ggcgccctca cgcagggcctt gcggactcac atcgacatgg tcgtgatgtc cgccacgctc 240
```

```

tgctccgctc tttacgtggg ggacttctgc ggtgggatga tgctcgcagc ccaaattgttc 300
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accatcaccg ggcaccgtat ggcatgggac atgatgatga actggtcgcc cacggccact 420
ttgatcctgg cgtacgtgat gcgcgttccc gaggtcatca tagacatcat tagcggggcg 480
cattggggcg tcttgttcgg cttagcctac ttctctatgc agggagcgtg ggcgaaagtc 540
gttgatcatcc ttctgctagc cgctgggggtg gacgcg 576

```

<210> 30

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 30

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gtggaagtca ggaacatcag ttccagctac tacgccacca atgattgctc aaacaacagc 60
atcacctggc aactcaccca cgcagttctc caccttcccc gatgcgtccc atgtgagaat 120
gacaatggca ccctgcgctg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180
ggcgcaacta ctcataacct gcgaacacac gtcgacgtga tcgtaatggc agctacggtc 240
tgctcggcct tgtatgtggg agacgtatgc ggggccgtga tgatcgtgtc gcaggctctc 300
ataatatcgc ctgaacgccca caactttacc caggagtgc actgttccat ctaccaaggc 360
catatcaccg gccaccgcat ggcatgggac atgatgctaa actggtcacc aactcttacc 420
atgatcctcg cctatgccgc tcgtgttccct gagctagccc tccagggtgt cttcggcggc 480
cattggggcg tgggtgtttgg cttggcctat ttctccatgc agggagcgtg ggccaaagtc 540
attgccatcc tccttcttgt cgcaggagtg gatgca 576

```

<210> 31

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK11

<400> 31

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gtggaagtca ggaacaccag ttctagttac tacgccacca atgattgctc aaacaacagc 60
atcacctggc aactcaccaa cgcagttctc caccttcccc gatgcgtccc atgtgagaat 120
gacaatggca ccctgcactg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180
ggcgcaacta ctcacaacct gcgagcacat atagatatga ttgtaatggc agctacggtc 240
tgctcggcct tgtatgtggg agacgtgtgc ggggccgtga tgatcgtgtc gcaggctttc 300
atagtatcgc cagaacacca ccactttacc caagagtgc actgttccat ctaccaaggc 360
cacatcaccg gccaccgcat ggcatgggac atgatgctta actggtcacc aactctcacc 420
atgatcctcg cctatgccgc ccgtgttccct gagctagtc ttgaagtgt cttcgggtgt 480
cattgggggtg tgggtgtttgg cttggcctat ttctccatgc agggagcgtg ggccaaggct 540
attgccatcc tccttcttgt agcaggagtg gatgca 576

```

<210> 32
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW3

<400> 32
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atcacctggc aactcaccaa cgcagtcctc caccttcccc gatgcgtccc gtgtgagaat 120
gataatggca ccctgcaact ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180
ggcgcgctca ctcacaacct gcgagcacac gtcgatatga tcgtaatggc agctacgggc 240
tgctcggcct tgtatgtggg agacatgtgc ggggccgtga tgatcgtgtc gcaggctttc 300
ataatatcgc cagaacgcca caactttacc caagagtga actgttccat ctaccaaggt 360
cgtatcaccg gccaccgcat ggcgtgggac atgatgctaa actggtcacc aactcttacc 420
atgatccttg cctatgccgc tcgtgttcct gagctagtcc ttgaagttgt cttcggcggc 480
cattggggcg tgggtgtttg cttggcctat ttctccatgc aaggagcgtg ggccaaggtc 540
attgccatcc tcctgcttgt cgcaggagtg gatgca 576

<210> 33
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: T8

<400> 33
gtggaagtta gaaacaccag ttttagctac tacgccacca atgattgctc gaacaacagc 60
atcacctggc agctcaccaa cgcagttctc caccttcccc gatgcgtccc atgtgagaat 120
gacaatggca ccttgcgctg ctggatacaa gtaacaccta atgtggctgt gaaacaccgt 180
ggcgcaactca ctcacaacct gcgaacgcat gtcgacgtga tcgtaatggc agctacgggc 240
tgctcggcct tgtatgtggg ggacgtgtgc ggggccgtga tgatagcgtc gcaggctttc 300
ataatatcgc cagaacgcca caacttcacc caggagtga actgttccat ctaccaaggt 360
catatcaccg gccaccgcat ggcattgggac atgatgctga actggtcacc aactctcacc 420
atgatcctcg cctacgctgc tcgtgtgcct gaactagtcc ttgaagttgt cttcggcggc 480
cattggggcg tgggtgtttg cttggcctat ttctccatgc aaggagcgtg ggccaaggtc 540
atcgccatcc tcctccttgt cgcaggagtg gacgca 576

<210> 34
<211> 576
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 34

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gtggaggtca aggacaccgg cgactcctac atgccgacca acgattgctc caactctagt 60
atcgtttggc agcttgaagg agcagtgtt catactcctg gatgcgtccc ttgtgagcgt 120
accgccaacg tctctcgatg ttgggtgccg gttgccccca atctcgccat aagtcaacct 180
ggcgctctca ctaagggcct gcgagcacac atcgatatca tcgtgatgtc tgctacggtc 240
tgttctgccc tttatgtggg ggacgtgtgt ggcgcgctga tgctggccgc tcaggtcgtc 300
gtcgtgtcgc cacaacacca tacgtttgtc caggaatgca actgttccat ataccgggc 360
cgcattacgg gacaccgcat ggcttgggat atgatgatga actggtcgcc cactaccacc 420
atgctcctgg cgtacttggg gcgcaccccg gaagtcacat tggatattgt tacaggaggt 480
cattgggggtg taatgtttgg cctcgcttac ttctccatgc agggatcgtg ggccaagggtc 540
atcgttatcc tcctgctgac tgctgggggtg gagggc 576
```

<210> 35

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK12

<400> 35

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ttagagtggc ggaatgtgtc cggcctctac gtccttacca acgactgttc caatagcagt 60
atcgtgtatg aggccgatga cgtcattctg cacacacctg gctgtgtacc ttgtgttcag 120
gacggcaata catctacgtg ctggacctca gtgacgccta cagtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctgc tagtgggcgc ggccacgatg 240
tgctctgcgc tctacgtggg tgatgtgtgt ggggcccgtc tccttgtggg acaagccttc 300
acgttcagac ctgcgcgcca tcaaacagtc cagacctgta actgctcgtc gtaccagggc 360
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atggtggttag cgcacgtcct gcgtctgccc cagaccttgt tcgacataat agctggggcc 480
cattggggca tcatggcggg cctagcctat tactccatgc agggcaactg ggccaagggtc 540
gctatcatca tggttatgtt ttcaggagtc gatgcc 576
```

<210> 36

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 36

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ctagagtggc ggaatgtgtc tggcctctat gtccttacca acgactgtcc caatagcagt 60
```

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atttgtgtatg aggccgatga cgtcattctg cacacacctg gctgtgtacc ttgtgttcag 120
gacggcaata catccacgtg ctggacctcg gtgacaccta cagtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctgt tagtgggagc gccacgatg 240
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acgttcagac cgcgtcgcca tcaaacggtc cagacctgta actgctcgct gtaccagggc 360
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atggtggtgg cgcacgtcct gcggttgccc cagacctgtg tcgacataat agccggggcc 480
cattggggca tcttggcagg cctagcctat tactccatgc agggcaactg ggccaaggct 540
gctatcatca tggttatgtt ttcaggggtc gatgcc 576

```

<210> 37

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 37

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ctagagtggc ggaatacgtc tggcctctat gtcctacca acgactgttc caatagcagt 60
atttgtgtatg aggccgatga cgttattctg cacacacctg gctgtgtacc ttgtgttcag 120
gacggtaata catccacgtg ctggacccca gtgacaccta cagtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctat tggtagggcgc gccactatg 240
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acgttcagac ctcgtcgcca tcaaacggtc cagacctgta actgctcgct gtaccagggc 360
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atggtggtgg cgcacgttct gcggttgccc cagacctgtg tcgacataat agccggggcc 480
cattggggca tcttggcggg cctagcctat tactccatgc aaggcaactg ggccaaggct 540
gctatcatca tggttatgtt ttcaggggtc gacgcc 576

```

<210> 38

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 38

```

ctagagtggc ggaatacgtc tggcctctat gtcctacca acgactgttc caatagcagt 60
atttgtgtatg aggccgatga cgtcattctg cacacacccg gctgtgtacc ttgtgttcag 120
gacggcaata catccatgtg ctggacccca gtgacaccta cggtaggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctat tagtgggagc gccacgctg 240
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acgttcagac ctcgtcgcca tcaaacggtc cagacctgta actgctcgct gtaccagggc 360
catgtttcag gacatcgaat ggcttgggat atgatgatga attgggtccc cgctgtgggt 420

```

```

atggtggtgg cgcacatcct gcgattgccc cagaccttgt ttgacatact ggccggggcc 480
cattggggca tcttggcggg cctagcctat tattctatgc agggcaactg ggccaaggtc 540
gctattgtca tgattatggt ttcaggggtc gatgcc 576

```

<210> 39

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S54

<400> 39

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ctagagtggc ggaatacgtc tggcctctat atccttacca acgactgttc caatagcagt 60
attgtgtatg aggccgatga cgtcattctg cacacacccg gctgtgtacc ttgtgttcag 120
gacggcaata catccacgtg ctggacccca gtgacaccta cgggtggcagt caggtagctc 180
ggagcaacca ccgcttcgat acgcagtcac gtggacctat tagtgggcgc ggccacgctg 240
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acgttcagac ctgcgcgcca tcaaacggtc cagacctgta actgctcgtc gtaccaggc 360
catctttcag gacatcgaat ggcttgggat atgatgatga attggtcccc cgctgtgggt 420
atggtggtgg cgcacatcct gcgattgccc cagaccttgt ttgacatact ggccggggcc 480
cattggggca tcttggcggg cctagcctat tattctatgc agggcaactg ggccaaggtc 540
gctatcatca tgattatggt ttcaggggtc gatgcc 576

```

<210> 40

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z4

<400> 40

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gagcactacc ggaatgcttc gggcatctat cacatcacca atgattgtcc gaattccagt 60
atagtctatg aagctgacca tcacatccta cacttgccgg ggtgcgtacc ctgtgtgatg 120
actgggaaca catcgcgttg ctggacgccg gtgacgccta cagtggctgt cgcacacccg 180
ggcgtccgc ttgagtcgtt ccggcgacat gtggacttaa tggtaggcgc ggccactttg 240
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catatcaccg gccacaggat ggcgtgggac atgatgatga actggagccc taccaccact 420
ctgctcctcg cccagatcat gaggggtccc acagccttcc tcgacatggg tgccggaggc 480
cactggggcg tcctcgcggg cttggcgtag ttcagcatgc aaggcaattg ggccaaggta 540
gtcctgggtc ttttcctctt tgctggggta gacgcc 576

```

<210> 41

<211> 576
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: Z1

<400> 41

```
gtgcactacc ggaatgcttc gggcgtctat catgtcacca atgattgccc taacaccagc 60
atagtgtacg agacggagca ccacatcatg cacttgccag ggtgtgtccc ctgtgtgcgg 120
acggagaata cttctcgtcg ctgggtgccc ttgaccccca ctgtggccgc gccctatccc 180
aacgcaccgt tagagtccat gcgcaggcat gtagacctga tgggtgggtgc ggctactatg 240
tgttccgcct tctacattgg agatctgtgt ggaggcgtct tcctagtggg ccagctgttc 300
gacttccgac cgcgccggca ctggaccacc caggattgca actgctccat ctatcctggg 360
cacgtctcgg gccacaggat ggccctgggac atgatgatga actggagccc taccagcgcg 420
ctgattatgg ctcagatctt acggatcccc tctatcctag gtgacttgct caccgggggt 480
cactggggag ttcttgctgg tctagctttc ttcagcatgc agagtaactg ggcgaaggtc 540
atcctggtcc tattcctctt tgccggggtc gagggga 576
```

<210> 42

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 42

```
gttaactatc gcaatgcctc gggcgtctat cacgtcacca acgactgccc gaactcgagc 60
atagtgtatg aggccgaaca ccagatctta cacctcccag ggtgcttgcc ctgtgtgagg 120
gttggaatc agtcacgctg ctgggtggcc cttactccca ccgtggcggg gtcttatatc 180
ggtgctccgc ttgactccct ccggagacat gtggacctga tgggtgggcgc cgctactgta 240
tgctctgccc tctacgttgg agatctgtgc ggtggtgcat tcttggttgg ccagatgttc 300
tccttccagc cgcgacgcca ctggactacg caggactgca attgttctat ctacgcaggg 360
catatcacgg gccacaggat ggcatgggac atgatgatga actggagtcc cacaaccacc 420
ctgcttctcg cccaggatcat gaggatccct agcactctgg tagatctact cgctggaggg 480
cactggggcg tccttggttg gttggcgtag ttcagtatgc aagctaattg ggccaaagtc 540
atcctggtcc tttcctctt cgctggagtt gatgcc 576
```

<210> 43

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 43

```
gtcaactatc acaatgcctc gggcgtctat cacatcacca acgactgccc gaactcgagc 60
ataatgtatg aggccgaaca ccacatccta cacctcccag ggtgcgtacc ctgtgtgagg 120
gaggggaacc agtcacgctg ctgggtggcc cttactccca ccgtggcggc gccttatatc 180
ggtgcaccgc ttgaatccat ccggagacat gtggacctga tggtaggcgc tgctacagtg 240
tgctccgctc tctacattgg ggacctgtgc ggtggcgtat ttttggttgg tcagatgttt 300
tctttccagc cgcgacgcca ctggactacg caggactgca attgttccat ctatgcgggg 360
cacgttacag gccacagaat ggcatgggac atgatgatga actggagtcc cacaaccacc 420
ttggtcctcg cccaggttat gaggatccct agcactctgg tggacctact cactggaggg 480
cactggggta tccttatcgg ggtggcatac ttctgcatgc aagctaattg ggccaaggtc 540
attctggtcc ttttctctta cgctggagtt gatgcc 576
```

<210> 44

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 44

```
tacaactatc gcaacagctc ggggtgtctac catgtcacca acgattgccc gaactcgagc 60
atagtctatg aaaccgatta ccacatctta cacctcccgg gatgcgttcc ttgcgtgagg 120
gaagggaaca agtctacatg ctgggtgtct ctcaccccca ccgtggctgc gcaacatctg 180
aatgctccgc ttgagtcttt gagacgtcac gtggatctga tggtaggcgc cgccactctc 240
tgctccgccc tctacatcgg agacgtgtgt gggggtgtgt tcttggtcgg tcaactgttc 300
accttccaac ctgcgcgcca ctggaccacc caagactgca attgttccat ctacacagga 360
catatcacag gacacagaat ggcttgggac atgatgatga attggagccc cactgcgacg 420
ctggtcctcg cccaacttat gaggatccca ggcgccatgg tgcacctgct tgcaggcggc 480
cactggggca ttctggttgg catagcgtac ttcagcatgc aagctaattg ggccaaggtt 540
atcctggtcc tgtttctctt tgctggagtc gacgct 576
```

<210> 45

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 45

```
gttccctacc ggaatgcctc tgggggtttac catgtcacca atgactgccc aaactcctcc 60
atagtctacg aggcgtgatag cctgatcttg cagcacctg gctgcgtgcc ctgtgtcagg 120
caagataatg tcagtaggtg ctgggtccaa atcaccccca cactgtcagc cccgaccttc 180
ggagcgggtca cggctcctct tcggagggcc gttgactact tagcgggagg agctgctctc 240
```



```

tgctccgcac tatacgtcgg cgacgcgtgc ggggcagtgt ttctggtagg ccaaagtgtc 300
acctataggc ctgccagca taccacagtg caggactgca actgttccat ttacagtggc 360
catatcaccg gccaccggat ggcttgggac atgatgatga attggtcacc tacgacagcc 420
ttgctgatgg ccagatgct acggatcccc cagggtgtca tagacatcat agccgggggc 480
cactgggggg tcttgtttgc cgccgcatac tttgcgtcgg ccgccaactg ggctaaggta 540
gtgctgggtc tgttcctggt tgcgggggtc gatggc 576

```

<210> 46

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 46

```

gttccctacc gaaacgcctc tggggtttat catgtcacca atgattgccc aaactcttcc 60
atagtttacg aggctgataa cctgatcttg catgcacctg gttgcgtgcc ttgtgtcagg 120
caagataatg tcagtaagtg ctgggtccaa atcaccccca cgttgtcagc cccgaatctc 180
ggagcgggtca cggctcctct tcggagggcc gttgactact tagcgggagg ggctgccctc 240
tgctccgcac tatacgtcgg ggacgcgtgc ggggcagtgt ttttggtagg ccaaagtgtc 300
acctataggc ctgccagca cactacggtg caagactgca attgctctat ttacagtggc 360
catatcaccg gccaccggat ggcatgggac atgatgatga attggtcacc tacgacggcc 420
ttgctgatgg ccagttgct acggattccc cagggtgtca tcgacatcat tgccgggggc 480
cactgggggg tcttgtttgc cgccgcatac ttcgcgtcag cggctaactg ggctaagggt 540
atactggtct tgtttctggt tgcgggggtc gatggc 576

```

<210> 47

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA5

<400> 47

```

gtccccctacc gaaatgcctc tggggtttat catgtcacca atgattgccc aaactcttcc 60
atagttctacg aggctgataa cctgattctg cagcacctg gttgcgtgcc ctgtgtcaag 120
gaaggtaatg tcagtaggtg ctgggtccaa atcaccccca cattgtcagc cccgaacctc 180
ggagcgggtca cggctcctct tcggagggtc gttgactact tagcgggagg ggctgccctc 240
tgctccgcac tatacgtcgg ggacgcgtgc ggggcagtgt tcttggtagg ccaaagtgtc 300
acctataggc ctgccagca tactacggtg caggactgca actgttccat ttacagcggc 360
catatcaccg gccaccgaat ggcatgggac atgatgatga attggtcacc tacgacagcc 420
ttggtgatgg ccagggtgct acggattccc caagtgtca ttgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgtcgcatac ttcgcgtcag cggctaactg ggctaagggt 540
gtgctgggtc tgtttctggt tgcgggggtc gatggc 576

```

<210> 48
<211> 576
<212> DNA
<213> Homo sapiens

<400> 48
gttccttacc ggaatgcctc tgggggtgtat catgtttacca atgattgccc aaactcttcc 60
atagtctatg aggctgatga cctgatccta cacgcacctg gctgcgtgcc ctgtgtccgg 120
aaggataatg tcagtagatg ctgggttcat atcaccccca cactatcagc cccgagcctc 180
ggagcgggtca cggctcctct tcggagggcc gttgattact tggcgggagg ggccgccctg 240
tgctccgcgt tatacgtcgg agacgtgtgc ggggcattgt ttttggtagg ccaaagtgtc 300
acctataggc ctgccagca tgctacggtg caggactgca actgctccat ttacagtggc 360
catatcactg gccaccggat ggcatgggac atgatgatga attggtcacc cgcgacagcc 420
ttggtgatgg cccaaatgct acggattccc caggtggtca ttgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgctgcatac ttcgcgtcgg cggctaactg ggctaagggt 540
gtgctggtct tgtttctgtt tgcgggggtt gatgcc 576

<210> 49
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 49
gtccccctacc gaaatgcctc cgggggtttat catgtcacca atgattgccc gaactcttcc 60
atagtctatg aggctgacaa cctgatcctg cacgcacctg gttgcgtgcc ctgtgtcaga 120
caaaataatg tcagtaggtg ctgggtccaa atcaccccca cattgtcagc cccgaacctc 180
ggagcgggtca cggctcctct tcggagggcc gttgactacc tagcgggagg ggctgccctc 240
tgctccgcgc tatacgtcgg ggacgcgtgc ggggcagtgt ttttggtagg ccagatgttc 300
agctataggc ctgccagca cactacggtg caggactgca actgttccat ttacagtggc 360
catatcaccg gccaccgaat ggcatgggac atgatgatga attggtcacc tacgacagcc 420
ttggtgatgg ccagttgct acggattccc caggtggtca tcgacatcat tgccgggggc 480
cactgggggg tcttgttcgc cgccgcatat ttcgcgtcag cggctaactg ggctaagggt 540
gtgctggtct tgtttctgtt tgcgggggtc gatgcc 576

<210> 50
<211> 576
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA13

<400> 50

```
gttccttacc gaaatgcctc tgggggtttat catgtcacca atgattgccc aaactcttcc 60
atcgtctacg aggctgatga cctgatctta cagcacctg gttgcgtgcc ctgtgttagg 120
cagggtaatg tcagtaggtg ctgggtccag atcaccccca cactgtcagc cccgagcctc 180
ggagcgggtca cggctcctct tcggagggcc gttgactact tagcgggggg ggctgccctt 240
tgctccgcgt tatacgtcgg agacgcgtgc ggggcagtgt ttttggtagg tcaaagtgtc 300
acctatagcc ctgcgccgga taatgttgtg caggactgca actgttccat ttacagtggc 360
cacatcaccg gccaccggat ggcatgggac atgatgatga attggtcacc tacaacagct 420
ttggtgatgg ccagttgtt acggattccc caggtggtca ttgacatcat tgccggggcc 480
cactgggggg tcttggtcgc cgccgcatac tacgcgtcgg cggctaactg ggccaagggt 540
gtgctgggtc tgtttctgtt tgcgggggtc gatgcc 576
```

<210> 51

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 51

```
cttacctacg gcaactccag tgggctatac catctcacia atgattgccc caactccagc 60
atcgtgctgg aggcggatgc tatgatcttg catttgccctg gatgcttgcc ttgtgtgagg 120
gtcgatgatc ggtccacctg ttggcatgct gtgaccccca ccctggccat accaaatgct 180
tccacgcccc caacgggatt ccgcaggcat gtggatcttc ttgcggggcg cgagtggtt 240
tgctcatccc tgtacatcgg ggacctgtgt ggctctctct ttttggcggg acaactattc 300
acctttcagc cccgccgtca ttggactgtg caagactgca actgctccat ctatacaggc 360
cacgtcaccg gccacaggat ggcttgggac atgatgatga actggtcacc cacaaccact 420
ctggtcctat ctagcatctt gagggtagct gagatttgtg cgagtgtgat atttggtggc 480
cattggggga tactactagc cgttgcctac tttggcatgg ctggcaactg gctaaaagtt 540
ctggtgttgc tgttcttatt tgcagggggt gaagca 576
```

<210> 52

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK7

<400> 52

```
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1             5             10            15
```

```
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr
```

20					25					30						
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Gly	Asn	Val	Ser	Arg	Cys	Trp	
35					40					45						
Val	Ala	Met	Thr	Pro	Thr	Val	Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Thr	
50					55					60						
Ala	Gln	Leu	Arg	Arg	His	Ile	Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu	
65					70					75					80	
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val	
85					90					95						
Gly	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	His	Trp	Thr	Thr	Gln	Gly	
100					105					110						
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala	
115					120					125						
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Val	Ala	
130					135					140						
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Ile	Leu	Asp	Met	Ile	Ala	Gly	Ala	
145					150					155					160	
His	Trp	Gly	Val	Leu	Ala	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Val	Gly	Asn	
165					170					175						
Trp	Ala	Lys	Val	Leu	Val	Val	Leu	Leu	Leu	Phe	Ala	Gly	Val	Asp	Ala	
180					185					190						

<210> 53

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK9

<400> 53

Tyr	Gln	Val	Arg	Asn	Ser	Ser	Gly	Leu	Tyr	His	Val	Thr	Asn	Asp	Cys
1					5					10				15	

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ser
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Lys Cys Trp
35 40 45

Val Ala Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Met Ala
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Val Val Val Leu Leu Leu Phe Thr Gly Val Asp Ala
180 185 190

<210> 54

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR1

<400> 54

His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ala
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
 35 40 45
 Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
 50 55 60
 Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95
 Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Val Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
 180 185 190

<210> 55

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR4

<400> 55

His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys

1	5	10	15
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr			
20	25	30	
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Thr Ser Arg Cys Trp			
35	40	45	
Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr			
50	55	60	
Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu			
65	70	75	80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val			
85	90	95	
Gly Gln Leu Phe Thr Phe Ser Pro Arg His His Trp Thr Thr Gln Asp			
100	105	110	
Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala			
130	135	140	
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala			
145	150	155	160
His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn			
165	170	175	
Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala			
180	185	190	

<210> 56
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S14

<400> 56

Tyr	Gln	Val	Arg	Asn	Ser	Thr	Gly	Leu	Tyr	His	Val	Thr	Asn	Asp	Cys	1	5	10	15
Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Thr	Ala	Asp	Ala	Ile	Leu	His	Ala	20	25	30	
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Gly	Asn	Thr	Ser	Arg	Cys	Trp	35	40	45	
Val	Ala	Met	Thr	Pro	Thr	Val	Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Ala	50	55	60	
Thr	Gln	Leu	Arg	Arg	Tyr	Ile	Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu	65	70	75	80
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val	85	90	95	
Gly	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	Leu	Trp	Thr	Thr	Gln	Asp	100	105	110	
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala	115	120	125	
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Val	Ala	130	135	140	
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Ile	Leu	Asp	Met	Ile	Ala	Gly	Ala	145	150	155	160
His	Trp	Gly	Val	Leu	Ala	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Val	Gly	Asn	165	170	175	
Trp	Ala	Lys	Val	Leu	Val	Val	Leu	Leu	Leu	Phe	Ala	Gly	Val	Asp	Ala	180	185	190	

<210> 57
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S18

<400> 57

Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Thr Ile Leu His Ser
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
35 40 45

Val Pro Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Ile Ala
130 135 140

Gln Leu Leu Arg Val Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Ala Gly Asn
165 170 175

Trp Ala Lys Val Leu Leu Val Leu Leu Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 58

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 58

Tyr	Gln	Val	Arg	Asn	Ser	Ser	Gly	Leu	Tyr	His	Val	Thr	Asn	Asp	Cys
1				5				10						15	
Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Thr	Ala	Asp	Ala	Ile	Leu	His	Ser
			20					25					30		
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Asp	Gly	Ala	Pro	Lys	Cys	Trp
		35					40						45		
Val	Ala	Val	Ala	Pro	Thr	Val	Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Ala
	50					55					60				
Thr	Gln	Leu	Arg	Arg	His	Ile	Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu
65					70					75					80
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val
				85					90					95	
Ser	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	His	Trp	Thr	Thr	Gln	Asp
		100						105						110	
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
	115						120					125			
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Val	Ala
	130					135					140				
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Val	Leu	Asp	Met	Ile	Ala	Gly	Ala
145				150						155					160
His	Trp	Gly	Val	Leu	Ala	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Val	Gly	Asn
			165					170						175	
Trp	Ala	Lys	Val	Leu	Ile	Val	Leu	Leu	Leu	Phe	Ser	Gly	Val	Asp	Ala
		180					185						190		

<210> 59

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 59

Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp
35 40 45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ala
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 60

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 60

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Gly Asn Val Pro Thr
50 55 60

Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
85 90 95

Ser Gln Leu Phe Thr Leu Ser Pro Arg Arg His Glu Thr Val Gln Glu
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 61

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D3

<400> 61

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Gln Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Glu
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 62

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 62

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn His Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Ala Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Leu Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 63

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 63

Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Val Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 64

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK4

<400> 64

His Glu Val His Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Leu Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 65
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: HK5

<400> 65
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15
Ser Asn Leu Ser Ile Val Tyr Glu Thr Thr Asp Met Ile Met His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45
Val Ala Leu Ala Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60
Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
115 120 125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 66
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: HK8

<400> 66
 Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
 20 25 30
 Pro Gly Cys Met Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
 35 40 45
 Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr
 50 55 60
 Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80
 Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95
 Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 67
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: IND5

<400> 67
 Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp
 35 40 45
 Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Ser Thr
 50 55 60
 Thr Thr Ile Arg His His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80
 Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95
 Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
 145 150 155 160
 His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 68
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: IND8

<400> 68
 Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Phe Ser Ser Cys Trp
 35 40 45
 Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
 50 55 60
 Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80
 Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95
 Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
 145 150 155 160
 His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 69
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: P10

<400> 69
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60
Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Leu Leu Val
85 90 95
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Val Gln Asp
100 105 110
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Val Val Ala Gly Ala
145 150 155 160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 70
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S9

<400> 70
 Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Val Ile Met His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Gln Glu Gly Asn Ser Ser Gln Cys Trp
 35 40 45
 Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Thr Val Pro Thr
 50 55 60
 Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Val Phe
 65 70 75 80
 Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
 85 90 95
 Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Glu Thr Val Gln Asn
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
 130 135 140
 Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175
 Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly

<210> 71

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S45

<400> 71

Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys
 1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Leu His Thr
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
 35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
 50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
 65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
 85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
 130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
 145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
 165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 72

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 72

Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg Tyr Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Arg Val Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 73

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW2

<400> 73

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Ala Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Val Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn

165	170	175
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly		
180	185	190

<210> 74
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: T3

<400> 74

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Tyr Val Thr Asn Asp Cys			
1	5	10	15
Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr			
20	25	30	
Pro Gly Cys Val Pro Cys Val Arg Glu Ser Asn Ser Ser Arg Cys Trp			
35	40	45	
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr			
50	55	60	
Lys Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe			
65	70	75	80
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val			
85	90	95	
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp			
100	105	110	
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser			
130	135	140	
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala			
145	150	155	160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 75

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T10

<400> 75

Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Phe Glu Ala Ala Asp Leu Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Leu Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Thr Gly Ala
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly
180 185 190

<210> 76
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: US6

<400> 76
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Thr Phe
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Gln His Glu Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala

145	150	155	160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn			
	165	170	175
Trp Ala Lys Val Leu Ile Val Leu Leu Leu Phe Ala Gly Val Asp Gly			
	180	185	190

<210> 77
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: T2

<400> 77
 Ala Gln Val Arg Asn Thr Ser Arg Gly Tyr Met Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Glu Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
 20 25 30
 Pro Gly Cys Ile Pro Cys Glu Arg Leu Gly Asn Thr Ser Arg Cys Trp
 35 40 45
 Ile Pro Val Thr Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr
 50 55 60
 Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
 85 90 95
 Ala Gln Met Phe Ile Val Ser Pro Arg Arg His Trp Phe Val Gln Glu
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Gly Gly Ala
 145 150 155 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
 180 185 190

<210> 78

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 78

Ala Gln Val Lys Asn Thr Thr Asn Ser Tyr Met Val Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
 20 25 30

Pro Gly Cys Val Pro Cys Glu Lys Thr Gly Asn Thr Ser Arg Cys Trp
 35 40 45

Ile Pro Val Ser Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr
 50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
 85 90 95

Ala Gln Met Phe Ile Val Ser Pro Gln His His Trp Phe Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Met Arg Val Pro Glu Val Ile Leu Asp Ile Val Ser Gly Ala
 145 150 155 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Val Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
 180 185 190

<210> 79

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 79

Ala Glu Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val
 20 25 30

Pro Gly Cys Val Pro Cys Glu Arg Val Gly Asn Ala Ser Arg Cys Trp
 35 40 45

Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr
 50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala
 85 90 95

Ala Gln Met Phe Ile Ile Ser Pro Gln His His Trp Phe Val Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Ile Leu Ala

130	135	140
Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala		
145	150	155 160
His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala		
	165	170 175
Trp Ala Lys Val Val Val Ile Leu Leu Leu Thr Ala Gly Val Asp Ala		
	180	185 190

<210> 80
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: US10

<400> 80
 Val Gln Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Asp Ser Ile Thr Trp Gln Leu Glu Ala Ala Val Leu His Val
 20 25 30
 Pro Gly Cys Val Pro Cys Glu Lys Val Gly Asn Thr Ser Arg Cys Trp
 35 40 45
 Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr
 50 55 60
 Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Phe Cys Gly Gly Met Met Leu Ala
 85 90 95
 Ala Gln Met Phe Ile Val Ser Pro Arg His His Ser Phe Val Gln Glu
 100 105 110
 Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Leu Ile Leu Ala
 130 135 140
 Tyr Val Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala
 145 150 155 160
 His Trp Gly Val Leu Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175
 Trp Ala Lys Val Val Val Ile Leu Leu Leu Ala Ala Gly Val Asp Ala
 180 185 190

<210> 81
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK8

<400> 81
 Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asp Ala Val Leu His Leu
 20 25 30
 Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp
 35 40 45
 Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60
 His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val
 85 90 95
 Ser Gln Ala Leu Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
 100 105 110
 Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Ala Leu Gln Val Val Phe Gly Gly
 145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
 180 185 190

<210> 82

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK11

<400> 82

Val Glu Val Arg Asn Thr Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
 20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp
 35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60

His Asn Leu Arg Ala His Ile Asp Met Ile Val Met Ala Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val
 85 90 95

Ser Gln Ala Phe Ile Val Ser Pro Glu His His His Phe Thr Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala

115	120	125
Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala		
130	135	140
Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly		
145	150	155 160
His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala		
	165 170	175
Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala		
180	185	190

<210> 83
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SW3

<400> 83
 Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15

Ser Asn Ser Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
 20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp
 35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60

His Asn Leu Arg Ala His Val Asp Met Ile Val Met Ala Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Met Ile Val
 85 90 95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly Arg Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
 130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
 145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
 165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
 180 185 190

<210> 84

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 84

Val Glu Val Arg Asn Thr Ser Phe Ser Tyr Tyr Ala Thr Asn Asp Cys
 1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu
 20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp
 35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr
 50 55 60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Ala
 85 90 95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu
 100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala
130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly
145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala
165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala
180 185 190

<210> 85

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 85

Val Glu Val Lys Asp Thr Gly Asp Ser Tyr Met Pro Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Trp Gln Leu Glu Gly Ala Val Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Glu Arg Thr Ala Asn Val Ser Arg Cys Trp
35 40 45

Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu Thr
50 55 60

Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr Val
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Leu Met Leu Ala
85 90 95

Ala Gln Val Val Val Val Ser Pro Gln His His Thr Phe Val Gln Glu

100	105	110
Cys Asn Cys Ser Ile Tyr Pro Gly Arg Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Leu Leu Ala		
130	135	140
Tyr Leu Val Arg Ile Pro Glu Val Ile Leu Asp Ile Val Thr Gly Gly		
145	150	155 160
His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ser		
165	170	175
Trp Ala Lys Val Ile Val Ile Leu Leu Leu Thr Ala Gly Val Glu Ala		
180	185	190

<210> 86
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK12

<400> 86
 Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
 1 5 10 15
 Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
 20 25 30
 Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
 35 40 45
 Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
 50 55 60
 Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Phe Leu Val
 85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
130 135 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala
145 150 155 160

His Trp Gly Ile Met Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
180 185 190

<210> 87

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 87

Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
35 40 45

Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
130 135 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala
180 185 190

<210> 88
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: S2

<400> 88
Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val

	85		90		95
Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr					
	100		105		110
Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala					
	115		120		125
Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala					
	130		135		140
His Val Leu Arg Leu Pro Gln Thr Val Phe Asp Ile Ile Ala Gly Ala					
	145		150		155
					160
His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn					
			165		170
					175
Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala					
			180		185
					190

<210> 89
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S52

<400> 89

Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys					
1		5		10	15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr					
	20		25		30
Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Met Cys Trp					
	35		40		45
Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr					
	50		55		60
Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu					
	65		70		75
					80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
130 135 140

His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
165 170 175

Trp Ala Lys Val Ala Ile Val Met Ile Met Phe Ser Gly Val Asp Ala
180 185 190

<210> 90

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S54

<400> 90

Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Ile Leu Thr Asn Asp Cys
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala
130 135 140

His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Ile Met Phe Ser Gly Val Asp Ala
180 185 190

<210> 91
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z4

<400> 91
Glu His Tyr Arg Asn Ala Ser Gly Ile Tyr His Ile Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp His His Ile Leu His Leu
20 25 30

Pro Gly Cys Val Pro Cys Val Met Thr Gly Asn Thr Ser Arg Cys Trp
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro Leu
50 55 60

Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Leu

65		70		75		80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Met						
	85		90		95	
Gly Gln Met Ile Thr Phe Arg Pro Arg Arg His Trp Thr Thr Gln Glu						
	100		105		110	
Cys Asn Cys Ser Ile Tyr Thr Gly His Ile Thr Gly His Arg Met Ala						
	115		120		125	
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala						
	130		135		140	
Gln Ile Met Arg Val Pro Thr Ala Phe Leu Asp Met Val Ala Gly Gly						
145		150		155		160
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Phe Ser Met Gln Gly Asn						
	165		170		175	
Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala						
	180		185		190	

<210> 92
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z1

<400> 92
 Val His Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Pro Asn Thr Ser Ile Val Tyr Glu Thr Glu His His Ile Met His Leu
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Thr Glu Asn Thr Ser Arg Cys Trp
 35 40 45
 Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro Leu
 50 55 60

Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Met
65 70 75 80

Cys Ser Ala Phe Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val
85 90 95

Gly Gln Leu Phe Asp Phe Arg Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ser Ala Leu Ile Met Ala
130 135 140

Gln Ile Leu Arg Ile Pro Ser Ile Leu Gly Asp Leu Leu Thr Gly Gly
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Phe Phe Ser Met Gln Ser Asn
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Glu Gly
180 185 190

<210> 93
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: Z6

<400> 93
Val Asn Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Glu His Gln Ile Leu His Leu
20 25 30

Pro Gly Cys Leu Pro Cys Val Arg Val Gly Asn Gln Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Val Ala Val Ser Tyr Ile Gly Ala Pro Leu
50 55 60

Asp Ser Leu Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Val
85 90 95

Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Ala Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala
130 135 140

Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Ala Gly Gly
145 150 155 160

His Trp Gly Val Leu Val Gly Leu Ala Tyr Phe Ser Met Gln Ala Asn
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 94

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 94

Val Asn Tyr His Asn Ala Ser Gly Val Tyr His Ile Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Met Tyr Glu Ala Glu His His Ile Leu His Leu
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Gln Ser Arg Cys Trp
35 40 45

Val Ala Leu Thr Pro Thr Val Ala Ala Pro Tyr Ile Gly Ala Pro Leu

Val	Ser	Leu	Thr	Pro	Thr	Val	Ala	Ala	Gln	His	Leu	Asn	Ala	Pro	Leu
50						55					60				
Glu	Ser	Leu	Arg	Arg	His	Val	Asp	Leu	Met	Val	Gly	Gly	Ala	Thr	Leu
65					70					75					80
Cys	Ser	Ala	Leu	Tyr	Ile	Gly	Asp	Val	Cys	Gly	Gly	Val	Phe	Leu	Val
				85					90					95	
Gly	Gln	Leu	Phe	Thr	Phe	Gln	Pro	Arg	Arg	His	Trp	Thr	Thr	Gln	Asp
			100					105					110		
Cys	Asn	Cys	Ser	Ile	Tyr	Thr	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
		115					120					125			
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Ala	Thr	Leu	Val	Leu	Ala
	130					135						140			
Gln	Leu	Met	Arg	Ile	Pro	Gly	Ala	Met	Val	Asp	Leu	Leu	Ala	Gly	Gly
145					150					155					160
His	Trp	Gly	Ile	Leu	Val	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Gln	Ala	Asn
			165					170						175	
Trp	Ala	Lys	Val	Ile	Leu	Val	Leu	Phe	Leu	Phe	Ala	Gly	Val	Asp	Ala
		180					185						190		

<210> 96
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA1

<400> 96

Val	Pro	Tyr	Arg	Asn	Ala	Ser	Gly	Val	Tyr	His	Val	Thr	Asn	Asp	Cys
1				5					10					15	
Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Ala	Asp	Ser	Leu	Ile	Leu	His	Ala
			20					25					30		
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Gln	Asp	Asn	Val	Ser	Arg	Cys	Trp
		35					40					45			

Val	Gln	Ile	Thr	Pro	Thr	Leu	Ser	Ala	Pro	Thr	Phe	Gly	Ala	Val	Thr
50						55					60				
Ala	Pro	Leu	Arg	Arg	Ala	Val	Asp	Tyr	Leu	Ala	Gly	Gly	Ala	Ala	Leu
65					70				75					80	
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Ala	Cys	Gly	Ala	Val	Phe	Leu	Val
			85					90					95		
Gly	Gln	Met	Phe	Thr	Tyr	Arg	Pro	Arg	Gln	His	Thr	Thr	Val	Gln	Asp
	100						105						110		
Cys	Asn	Cys	Ser	Ile	Tyr	Ser	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
	115						120					125			
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Leu	Met	Ala
	130					135					140				
Gln	Met	Leu	Arg	Ile	Pro	Gln	Val	Val	Ile	Asp	Ile	Ile	Ala	Gly	Gly
145				150					155					160	
His	Trp	Gly	Val	Leu	Phe	Ala	Ala	Ala	Tyr	Phe	Ala	Ser	Ala	Ala	Asn
			165						170					175	
Trp	Ala	Lys	Val	Val	Leu	Val	Leu	Phe	Leu	Phe	Ala	Gly	Val	Asp	Gly
		180					185						190		

<210> 97
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA4

<400> 97
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala
 20 25 30
 Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Lys Cys Trp

35	40	45
Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr		
50	55	60
Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu		
65	70	75 80
Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val		
85	90	95
Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp		
100	105	110
Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala		
130	135	140
Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly		
145	150	155 160
His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn		
165	170	175
Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala		
180	185	190

<210> 98
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA5

<400> 98
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala
 20 25 30

Pro Gly Cys Val Pro Cys Val Lys Glu Gly Asn Val Ser Arg Cys Trp
 35 40 45
 Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr
 50 55 60
 Ala Pro Leu Arg Arg Val Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65 70 75 80
 Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
 85 90 95
 Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp
 100 105 110
 Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
 115 120 125
 Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
 130 135 140
 Gln Val Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
 145 150 155 160
 His Trp Gly Val Leu Phe Ala Val Ala Tyr Phe Ala Ser Ala Ala Asn
 165 170 175
 Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Gly
 180 185 190

<210> 99
 <211> 192
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA6

<400> 99
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15
 Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Lys Asp Asn Val Ser Arg Cys Trp
 35 40 45

Val His Ile Thr Pro Thr Leu Ser Ala Pro Ser Leu Gly Ala Val Thr
 50 55 60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Leu Phe Leu Val
 85 90 95

Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Ala Thr Val Gln Asp
 100 105 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Thr Ala Leu Val Met Ala
 130 135 140

Gln Met Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly
 145 150 155 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn
 165 170 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
 180 185 190

<210> 100

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA7

<400> 100

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala

20	25	30
Pro Gly Cys Val Pro Cys Val Arg Gln Asn Asn Val Ser Arg Cys Trp		
35	40	45
Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr		
50	55	60
Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu		
65	70	75
Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val		
85	90	95
Gly Gln Met Phe Ser Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp		
100	105	110
Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala		
130	135	140
Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly		
145	150	155
His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn		
165	170	175
Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala		
180	185	190

<210> 101

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 101

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Gln Gly Asn Val Ser Arg Cys Trp
35 40 45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Ser Leu Gly Ala Val Thr
50 55 60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val
85 90 95

Gly Gln Met Phe Thr Tyr Ser Pro Arg Arg His Asn Val Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala
130 135 140

Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Ala
145 150 155 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Tyr Ala Ser Ala Ala Asn
165 170 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala
180 185 190

<210> 102

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 102

Leu Thr Tyr Gln Asn Ser Ser Gln Leu Tyr His Leu Thr Asn Asp Cys
1 5 10 15

Pro Asn Ser Ser Ile Val Leu Glu Ala Asp Ala Met Ile Leu His Leu
20 25 30

Pro Gln Cys Leu Pro Cys Val Arg Val Asp Asp Arg Ser Thr Cys Trp
35 40 45

His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro Ala
50 55 60

Thr Gln Phe Arg Arg His Val Asp Leu Leu Ala Gln Ala Ala Val Val
65 70 75 80

Cys Ser Ser Leu Tyr Ile Gln Asp Leu Cys Gln Ser Leu Phe Leu Ala
85 90 95

Gln Gln Leu Phe Thr Phe Gln Pro Arg Arg His Trp Thr Val Gln Asp
100 105 110

Cys Asn Cys Ser Ile Tyr Thr Gln His Val Thr Gln His Arg Met Ala
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ser
130 135 140

Ser Ile Leu Arg Val Pro Glu Ile Cys Ala Ser Val Ile Phe Gln Gln
145 150 155 160

His Trp Gln Ile Leu Leu Ala Val Ala Tyr Phe Gln Met Ala Gln Asn
165 170 175

Trp Leu Lys Val Leu Ala Val Leu Phe Leu Phe Ala Gln Val Glu Ala
180 185 190

<210> 103

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK7

<400> 103

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60

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gacgtcaagt tccccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgagg 120
ggccctagat tgggtgtgcg cgcgccgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcacgtcgg cccgaggga ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggccctagctg gggccccaca gacccccggc gcaggtcgcg caatttgggt 360
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ggcgccccctc ttggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttttggcc 540
ctgctctctt gcctgaccgt gcccgttcg gcc 573

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<210> 104

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 104

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gacgtcaagt tccccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcacgtcgg cccgaggga ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggccctagctg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg atacccttac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420
ggcgccccctc tcggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt ccttctggcc 540
ctgctctctt gcctgactgt gcccgttcga gcc 573

```

<210> 105

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S14

<400> 105

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gacgtcaagt tccccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcacgtcgg cccgaggga ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtctccc 300
cgtggctctc ggccctagctg gggccccaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat accgctcgtc 420

```



```

ggcgcccccc tcggggggcg tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct gggtgtctct tctctatctt cctcctagcc 540
ctgctttctt gcctgactgt gcccgcctca gcc 573

```

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<210> 106
<211> 573
<212> DNA
<213> Homo sapiens

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```

<220>
<223> Individual Isolate: SW1

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<400> 106
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcgcgctcg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcggatggg cgggatggct cctgtcccc 300
cgtggctctc ggcctagctg gggccctaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgctc 420
ggcgccccctc ttggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct gggtgtctct tctctatctt ccttctggcc 540
ctgctttctt gcctgacagt gcccgcgtca gcc 573

```

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<210> 107
<211> 573
<212> DNA
<213> Homo sapiens

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```

<220>
<223> Individual Isolate: S18

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<400> 107
atgagcacia atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgcccacag 60
gacgttaagt tcccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgcggt 180
agacgtcagc ctatcccaa ggcgcgctcg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtcccc 300
cgtggctccc ggcctagctg gggccctaca gacccccggc gtaggtcgcg caatttgggc 360
aaagtcatcg ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgctc 420
ggcgccccctc tcggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaaccttcct gggtgtctct tctctatctt ccttctggcc 540
ctgctctctt gtctgactgt gcccgcgtca gct 573

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```

<210> 108

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<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DR4

<400> 108
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gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180
agacgtcagc ctatcccaa ggcgcgtcgg cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc tgcgggtggg cgggatggct cctgtccccc 300
cgtggctctc ggcctagctg gggccccaca gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg acaccctcac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc ttgggggcg c tgcagggcc ctggcgcatg gcgtccgagt tctggaagac 480
ggcgtgaact atgcaacagg gaatcttctt ggttgctctt tctctatctt ccttttgggt 540
ttgctctctt gcttgaccgt gcccgcatcg gcc 573

<210> 109
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA10

<400> 109
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gacgtcaagt tcccgggagg tgggtcagatc gttggtggag tctatctgtt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccag cccgagggca ggacctgggc ccagcccggg 240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgtggctctc ggcctagtgt gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgccccct tagggggcg c tgcagggcc ttggcgcatg gcgtccgggt tctggaagac 480
ggcgtgaact atgcaacagg gaatttgccc ggttgccctt tctctatctt cctcttgggt 540
ttgctgtcct gtttaaccat ccagcttcc gct 573

<210> 110
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: S45

<400> 110

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atgagcacga atcctaaacc tcaaagacaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcaca acctcgtgga 180
cggcgacaac ctatcccca a ggtcgcgcgg cccgagggca gggcctgggc ccagcccggg 240
catccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcaccc 300
cgtggctccc ggcctagtgt gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggatcatc ataccctcac gtgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagagcc ttggcgcgtg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaattctgcc ggttgctctt tctctatctt cctcttgggt 540
ctgctgtcct gcttgaccat cccagcttcc gct 573
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<210> 111

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 111

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccggggcg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca a ggtcgcgcgg cccgagggta gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caacgagggc ttgggggtggg caggatggct cctgtcaccc 300
cgcggtcccc ggcctagtgt gggccccacc gacccccggc gtaggtcgcg taatttgggt 360
aaggatcatc ataccctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc taggggggtg tgccagggcc ctggcgcgtg gcgtccgggt tctggaggac 480
ggcgtgaatt atgcaacagg gaatttggcc ggttgctctt tctctatctt cctcttgggt 540
ttgctgtcct gtttgaccat cccagcttcc gct 573
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<210> 112

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US6

<400> 112

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccggggcg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca a ggtcgcgcgg cccgagggca gggcctgggc tcagcccggg 240
```

```

tacccttggc ccctctatgg caacgagggc atgggggtggg caggatggct cctgtcaccc 300
cgtggctccc ggctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ttggcgcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc gggtgtctctt tctctatctt cctcttgggt 540
ttgctgtcct gtttgacct tccagcttcc gct 573

```

<210> 113

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: P10

<400> 113

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcaccc 300
cgtggctctc ggctagttg gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatctgccc gggtgtctctt tctctatctt cctcttgggt 540
ttgctgtcct gcctgacct cccagcgtcc gct 573

```

<210> 114

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 114

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atgggggtggg caggatggct cctgtcaccc 300
cgcggtctc ggctagttg gggccccaac gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcgcatg gcgtccgggt tctggaggac 480
ggcgtgaact acgcaacagg gaatttgccc gggtgtctctt tctctatctt cctcttgggt 540
ctgttgtcct gtttgacct cccagcttcc gcc 573

```

<210> 115
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: T10

<400> 115
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcggt tggtcagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgct cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacagc ctatcccaaa ggctcgccag cccgagggca gggcctgggc tcagcccggg 240
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cgtggctccc ggcctagttg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgctc 420
ggcgcccccc tagggggcgc tgccagggct ctggcacatg gtgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatttgccc ggttgtctct tttctatctt cctcttgggt 540
ctgctgtctt gtctgacctt cccagcttcc gct 573

<210> 116
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: SW2

<400> 116
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gacgtcaagt tcccgggcggt tggccagatc gttggtggag ttacctgtt gccgcgcagg 120
ggcccccggt tgggtgtgct cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaaa ggctcgccag cccgagggca gggcctgggc tcagcctggg 240
tacccttggc ccctctatgg caatgagggc atgggatggg caggatggct cctgtcccc 300
cgcggtcttc ggcctagttg gggccccact gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgctc 420
ggcgcccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaatttgccc ggttgtctct tttctatctt cctcttgggt 540
ttgctgtcct gtctgacctt cccagcttcc gct 573

<210> 117
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: IND3

<400> 117

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcg tggccagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgcggttctc ggctagtgtg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaagtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc tagggggcg tgccagggcc ctggcgcgat gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt ctttttagct 540
ttgctatcct gtttgaccat cccagcttcc gct 573
```

<210> 118

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: IND8

<400> 118

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcg tggccagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
cacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcacc 300
cgcggttctc ggctagtgtg gggccccaca gacccccggc gtaggtcgcg taatttgggt 360
aaggatcatcg ataccctcac atgcggcttc gccgacctca tggggtacat cccgctcgtc 420
ggcgcccccc taggggggtgc tgccagggcc ctggcgcgat gcgtccgggt cctggaggac 480
ggcgtgaact atgcaacagg gaacttgccc ggttgctctt tctctatctt ctttttgggt 540
ttgctatcct gtttgaccgt cccagcttcc gct 573
```

<210> 119

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 119

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
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gacgttaagt tccccgggcgg tggtcagatc gtcggtggag tttacctggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcaactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca aa ggctcgccat cccgagggca gggcctgggc tcagcccggg 240
tacccttggc ccctctacgg caatgagggc ttgggtggg caggatggct cctgtcacc 300
cgtggctctc ggcctagtgtt gggccccaat gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac atgcgggttt gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgc tgccagggct ctggcgcgcat gcgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaacctcccc ggttgctctt tctctatctt cttctgggt 540
ttgctgtcct gtttgaccat cccagcttcc gct 573

```

<210> 120

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 120

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tccccgggcgg tggtcagatc gttggtggag tttacctggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgaccagg aagacttcag agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca aa ggctcgccaa cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caacgagggc atgggtggg caggatggct cctgtcacc 300
cgcggctctc ggcctaattg gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac gtgcgggttc gccgacctca tggggtacat cccgctcgtc 420
ggtgcccccc tagggggcgt tgccagagcc ttggcacatg gtgtccgggt tctggaggac 480
ggcgtgaact atgcaacagg gaatttacct ggttgctctt tctctatctt cctctgggt 540
ttgctgtcct gcttgaccac cccagcttcc gct 573

```

<210> 121

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK5

<400> 121

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgtcaagt tccccgggcgg tggtcagatc gttggtggag tttacctggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgaccagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca aa ggctcgccga cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atgggtggg caggatggct cctgtcacc 300
catggctctc ggcctagtgtt gggccccacg gacccccggc gtaggtcgcg taatttgggt 360
aaggtcatcg ataccctcac gtgcgggttc gccgacctca tggggtacat cccgctcgtc 420

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```

ggcgcccccc tagggggcgt tgccagagcc ctggcacacg gtgtccgggt tctggaggac 480
ggcgtgaact acgcaacagg gaatataccc gggtgctctt tctctatctt ccttttggct 540
ttgctgtcct gtctgaccac cccagtttcc gct 573

```

<210> 122

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK4

<400> 122

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atgagcacga atcctaaacc tcaaagaaag accaaacgta acaccaaccg ccgcccacag 60
gacgttaagt tcccgggcgg tgccagatc gtccggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccaa ggctcgccaa cccgagggca ggacctgggc tcagcccggg 240
tacccttggc ccctctatgg caatgagggc atgggggtggg caggatggct cctgtcacc 300
cgcggtcttc ggcctagtgt gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgccccct tagggggcgt tgccagagcc ctggcacatg gtgtccgggt tgtggaggac 480
ggcgtgaact atgcaacagg gaatttggc gggtgctctt tctctatctt cctcttggct 540
ctgctgtcct gtttgacat cccagcttcc gct 573

```

<210> 123

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: P8

<400> 123

```

atgagcacga ctctaaacc tcaaagaaaa accaaacgta acaccagccg ccgcccacag 60
gacgttaagt tcccgggcgg tggtcagatc gttggtggag ttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcgatcgca acctcgtggc 180
aggcgacaac ctatcccaa ggctcgccgg cccgagggta gggcctgggc tcagcccggg 240
cacccttggc ccctctatgc caatgagggc ttgggggtggg cgggatggct cctgtcacc 300
cgcggtcttc ggcctagtgt gggccccacg gacccccggc gtaggtcgcg caatttgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgcccccc tagggggcgt tgccagggcc ctggcgcatg gcgtccgggt tgtggaggac 480
ggcgtgaact atgcaacagg gaatttgcct gggtgctctt tctctatctt ccttttggct 540
ttgctgtctt gtctgacat cccagcttcc gct 573

```

<210> 124

<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 124

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgttaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180
aggcgacaac ctatcccca ggctcgccgg cccgagggta gggcctgggc tcagccccggg 240
tacccttggc ccctctatgg cgacgagggc atgggggtggg caggatggct cctgtcacc 300
cgcggtccc gccctaattg gggccccaca gacccccggc gtaggtcgcg taatctgggt 360
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggtacat tccgctcgtc 420
ggcgctccct tagggggcgt tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480
ggcgtgaatt acgcaacagg gaatttgctt ggttgctctt tctctatctt cctcttggct 540
ttgctgtcct gcttgacct cccagcttcc gct 573
```

<210> 125

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 125

```
atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg tcgcccacag 60
gacgttaagt tcccgggcgg cggccagatc gttggcggag tatacttgtt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccacgtggg 180
aggcgccagc ccatcccca agatcggcgc tccactggca agtcctgggg aaaaccagga 240
tatccctggc ccctgtatgg gaatgagggc ctcggtggg caggatggct cctgtcccc 300
cgaggttccc gtccctcctg gggccccaat gacccccggc ataggtcgcg caacgtgggt 360
aaggtcatcg ataccctaac gtgcagcctt gccgacctca tggggtacgt cccgctcgta 420
ggcgggcccg tgggtggcgt cgccagagct ctgcgcgatg gcgtgagagt cctggaggac 480
ggggttaatt atgcaacagg gaacttacct ggttgctcct tttctatctt cttgctggcc 540
ctactgtcct gcataccat tccagtctcc gct 573
```

<210> 126

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 126

```
atgagcaciaa atcctaaacc tcaaagaaaa accaaaagaa acactaaccg tcgcccaciaa 60
gacgttaagt ttccggggcgg cggccagatc gttggcggag tatacttggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtecca gccacgtggg 180
aggcgccagc ccatccccaa agatcggcgc cccactggca agtcctgggg aaaaccagga 240
tacccttggc ccctatatgg gaatgaggga ctcggtggg caggatggct cctgtcccc 300
cgaggttccc gtccctcttg gggccccact gatccccggc ataggtcgcg caacgtgggt 360
aaggatcatg ataccctaac gtgagggttt gccgacctca tgggatacat ccccgctgtg 420
ggcgctccgc ttggtggcgt cgccagagct ctgcgcgatg gcgtgagggt cctggaggac 480
ggggttaatt atgcaacagg gaacttaccc ggttgctcct tttctatctt cttgctggcc 540
ttactgtcct gcatcaccat tccagtctct gct 573
```

<210> 127

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 127

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atgagcaciaa atccaaaacc ccaaagaaaa accataagaa acaccaaccg tcgcccacag 60
gacgttaagt tcccggggcgg cggccagatc gttggcggag tatacttggt gccgcgcagg 120
ggccctagggt tgggtgtgcg cagcacaagg aagacttcgg agcggtecca gccacgtggg 180
aggcgccagc ccatccccaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240
tacccttggc ctctatatgg gaatgaggga ctcggtggg cgggatggct cctgtcccc 300
cgaggttccc gtccctcttg gggccccagt gacccccggc ataggtcgcg caacgtgggt 360
aaggatcatg ataccctaac gtgagggttt gccgacctca tggggatcat ccccgctgta 420
ggcgccccgc ttggtggcgt tgccagagct ctgcgcacg gcgtgagagt cctggaggac 480
ggggttaatt atgcaacagg gaacctacct ggttgctcct tttctatctt cttgctggcc 540
ctactgtcct gcatcaccat tccggcctct gct 573
```

<210> 128

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 128

```
atgagcaciaa ttctaaacc tcaaagaaaa accaaaagaa acactaaccg tcgcccaciaa 60
gacgttaagt ttccggggcgg cggccagatc gttggcggag tatacttgct gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtecca gcctcgtgga 180
aggcgccagc ccatccctaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240
```

```

tacccttggc ccctgtatgg gaatgagggg ctcggtctggg caggatggct cctgtcccc 300
cgaggttctc gtccctcttg gggccccaat gacccccggc ataggctcgc caatgtgggt 360
aaagtcatcg ataccctaac gtgctggcttt gccgacctca tggggtacat ccccgctcgt 420
ggcgccccgc ttggtgggtg cgccagagct cttgcgcctg gcgtgagagt cctggaggac 480
ggagtttaatt atgcaacagg taacttacct gggtgtctct tttctatctt cttgctagcc 540
ctgctgtcct gcatcactat tccggtttca gct 573

```

<210> 129

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 129

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atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acacaaaccg ccgcccacag 60
gacgtcaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccga agatcggcgc tccaccggca agtcctgggg aaaaccagga 240
tattccttggc ctctttacgg aaacgagggc tgcggttggg cagggttggt cctgtcccc 300
cgcggtgtct gtccacttg gggccccact gacccccggc atagatcacg taatttgggc 360
agagtcacg ataccattac atgtggtttt gccgacctca tggggtacat cctgtcgtt 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacatg gtgttaggg cctggaagac 480
gggataaact atgcaacagg gaatttgcct gggtgtctct tttctatctt cttgcttgct 540
cttctgtcat gcttcacagt gccagtgctc gca 573

```

<210> 130

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: US1

<400> 130

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atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acacaaaccg ccgcccacag 60
gacgtcaagt tcccgggtgg cggtcagatc gttggcggag tttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180
agacgccagc ccatcccga agatcggcgc tccaccggca agtcctgggg aaagccagga 240
tattccttggc ctctgtacgg aaacgagggc tgcggtctgg cagggttggt cctgtcccc 300
cgcggtgtct gtccacttg gggccccact gacccccggc acagatcacg taacttgggc 360
aaggtcatcg ataccattac gtgtggtttt gccgacctca tggggtacat cctgtcgtt 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttaggg cctggaagac 480
gggataaatt acgcaacagg gaattctgct gggtgtctct tttctatctt cttacttgct 540
cttctgtcgt gcgccacggt gccggtgtct gca 573

```

<210> 131
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: DK11

<400> 131
atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa atacaaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag ttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cagcacaagg aagacttccg agcgatcca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agccctgggg aaagccagga 240
tataccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtcccc 300
cgcggtctc atcctaattg gggccccact gacccccggc ataaatcacg caatttgggt 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat ccctgtcgtc 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480
gggataaatt acgcaacagg gaatctgcct ggttgcctct tttctatctt cttacttgct 540
cttctgtcat gctgcacagt gccagtgtct gcg 573

<210> 132
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SW3

<400> 132
atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa atacaaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag ttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatcca gccgcgtggg 180
agacgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaagccagga 240
tataccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggct cctgtcccc 300
cgcggtctc atcctaattg gggccccact gacccccggc atagatcacg caatttgggc 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat ccctgtcgtt 420
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480
gggataaatt acgcaacagg gaatctgcct ggttgcctct tttctatctt cttacttgct 540
cttctgtcgt gcttcacagt gccagtgtct gcg 573

<210> 133
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 133

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atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acacaaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cggccagatc gttggcggag ttacttgct gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgacaagg aagtcttccg agcgatccca gccgcgtggg 180
aggcgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaaaccggga 240
tattcttggc cctgtatgg aaacgagggc tgcggctggg cagggtggct cctgtcccc 300
cgcggtctc gtctacttg gggccccact gacccccggc atagatcacg caatttgggc 360
aaagtcatcg acaccattac gtgtggtttt gccgacctca tggggtacat cctgtcgtt 420
ggcgccccgg ttggaggcgt cgccagagct ctggcacacg gtgttagggg cctggaagac 480
gggataaatt acgcaacagg gaatttgctt ggttgctctt tttctatctt cttgcttgct 540
cttctgtcgt gctgcacagt gccagtgtct gcg 573
```

<210> 134

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 134

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atgagcacia atcctaaacc tcaaagaaaa accaaaagaa acactaaccg ccgcccacag 60
gacgtcaagt tcccggggcg tggccagatc gttggcggag tatacttgct gccgcgcagg 120
ggccccagat tgggtgtgcg cgcgacgagg aaaacttccg aacgggtcca gccacgtggg 180
aggcgccagc ccatccctaa agatcggcgc accactggca agtcctgggg aaggccagga 240
tacccttggc cctgtatgg gaatgagggc ctcggtggg cagggtggct cctgtcccc 300
cgcggttctc gcccttcag gggccccacc gacccccggc ataaatcgcg caacttgggt 360
aaggtcacg atacccctaa gtgcgggtttt gccgacctca tggggtacat acccgctggt 420
ggcgctcccg ttggcggcgt tgccagagcc ctgcgccatg ggggtgagggt tctggaggac 480
gggataaatt atgcaacggg gaatttgccc ggttgctctt tctctatctt tctcttggcc 540
ctcttgctt gcattctctg gccagtttcc gcc 573
```

<210> 135

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 135

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atgagcacac ttctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
```

```

gacgttaagt tccccgggtgg cggacagatc gttggtggag tatacgtggt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcgca gcctcgcgga 180
cgacgacagc ctatcccaa ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcccggg 240
tacccttggc ccctctatgg taacgagggc tgcgggtggg caggatggct cctgtcccca 300
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aaagtcatcg atacccttac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
ggcgctccc taggaggcgt cgcaagagcc ctgcgcgatg gcgtgagggc ccttgaagac 480
gggataaatt tcgcaacagg gaacttgccc ggttgctcct tttctatctt ctttcttgct 540
ctgttctctt gcttaattca tccagcagct agt 573

```

<210> 136

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 136

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atgagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
gacgttaagt tccccgggtgg cggacagatc gttggtggag tatacgtggt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cgacgacagc ctatcccaa ggcgcgtcgg agcgaaggcc ggtcctgggc tcagcccggg 240
tacccttggc ccctctatgg taatgagggc tgcgggtggg cagggtggct cctgtcccca 300
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aaagtcatcg atacccttac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
ggcgctccc taggaggcgt cgcaagagcc ctgcgcgatg gcgtgagggc ccttgaagac 480
gggataaatt ttgcaacagg gaacttgccc ggttgctcct tttctatctt ctttcttgct 540
ctgttctcct gcttagttca tcctgcagct agt 573

```

<210> 137

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 137

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atgagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60
gacatcaagt tccccgggtgg cggacagatc gttggtggag tatacgtggt gccgcgcagg 120
ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
cggcgacagc ctatcccaa ggcgcgtcgg agcgaaggcc gatcctgggc tcagcccggg 240
tacccttggc ccctctatgg taacgagggc tgcgggtggg cagggtggct cctgtcccca 300
cgcggtccc gtccatcttg gggcccaaac gacccccggc ggaggtccc caatttgggt 360
aaagtcatcg atacccttac gtgcggcttc gccgacctca tggggtacat cccgctcgtc 420

```

ggcgctcccg taggaggcgt cgcaagagcc ctcgcgcatg gcgtgagggc ccttgaagac 480
 gggataaatt ttgcaacagg gaacttgccc ggttgctctt tttctatctt ccttcttgcc 540
 ctgttctctt gcttaattca tccagcagct agt 573

<210> 138
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK12

<400> 138
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 gacgtcaagt tcccgggtgg cggacagatc gttgggtggag tatacgtgtt gccgcgcagg 120
 ggcccacgat tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgcgga 180
 cggcgacagc ctatcccaa ggcgcgctcg agcgaaggcc ggtcctgggc tcagcctggg 240
 tacccttggc ccctctatgg taacgagggc tgcgggtggg caggggtggc cctgtcccca 300
 cgcggtctcc gtccatcttg gggcccaaac gacccccggc ggaggtcccg caatttgggt 360
 aaggtcatcg ataccctcac gtgcggattc gccgacctca tggggtacat cccgctcgtc 420
 ggcgctctcg tagggggcgt cgcaagagcc ctcgcgcatg gcgtgagggc ccttgaagac 480
 gggataaatt tcgcaacagg gaacttgccc ggttgctcct tttctatctt ccttcttgct 540
 ctgttctctt gcctaattca tccagcagct agt 573

<210> 139
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z4

<400> 139
 atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
 gacgtaaagt tcccgggtgg tggccagatc gttggcgagg tttacttggt gccgcgcagg 120
 ggccccaggt tgggtgtgcg cgcgactcga aagacttcgg agcggtcgca acctcgtggc 180
 aggcgtaaac ctatcccaa ggcgcgccag ccagagggca gatcctgggc gcagcccggg 240
 tacccttggc ccctctatgg caatgagggc tgcgggtggg caggggtggc cctgtctcct 300
 cgcggtcttc ggccatcttg gggcccaaact gatccccggc ggagatcgcg caatctgggt 360
 aaggtcatcg ataccctgac gtgcggcttc gccgacctca tgggatacat cccgatcgtg 420
 ggcgcccccg tggggggcgt cgccagggct ctggcgcatg gcgtcagggc tgtggaggac 480
 gggattaact atgcaacagg gaatcttccc ggttgctcct tctctatctt ccttttggca 540
 cttctttcgt gcctcactgt tccagcgtcg gct 573

<210> 140

<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: Z8

<400> 140

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccctatg 60
gatgtaaaaat tcccaggcgg cggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgtggc 180
aggcgtcagc ctatcccaa ggcacgtcgg tccgagggtg ggtcctgggc tcagcccggg 240
taccatggc ctctttacgg taatgaaggc tgtgggtggg cagggtggct cctgtcccc 300
cgcggtctc gaccgtcttg gggcccaa atgacccggc ggaggtcgcg caatttgggt 360
aaggatcatg ataccctcac gtgcggcttc gccgacctca tgggatacat cccgctcgtg 420
ggcgccccag taggaggcgt cgccagagcc ctggcgcatg gcgtcagggc tgtggaggac 480
gggatcaact atgcaacagg gaaccttcct ggttgctctt tctctatctt cctcttgga 540
cttctctcgt gcctaaccgt cccagcgtct gct 573
```

<210> 141

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z1

<400> 141

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atgagcacaa atcctaaacc tcaaagaaaa accaaacgta acaccaaccg tcgccccatg 60
gatgtgaaat tcccgggcgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120
ggcccccggt tgggtgtgcg cgcagctcgg aagacttcgg agcggtcaca acctcgtggc 180
aggcgtcagc ctatcccaa ggcgcgccgg tccgagggtg ggtcctgggc tcagcccggg 240
tacccttggc ccctttacgg caatgagggc tgtgggtggg cagggtggct cctgtcccc 300
cgcggttcca ggccgtcttg gggcccaa atgacccggc gtaggtcccg taatctgggt 360
aaagtcacg ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgta 420
ggcgccccctg tgggtggcgt cgccagggcc ctggcgcatg gcgtcagggc cgtggaggac 480
ggaattaact acgcaacagg gaaccttcct ggttgctctt tctctatctt tcttcttgca 540
cttctctcgt gcctgacaac accagcatct gcc 573
```

<210> 142

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z5

<400> 142

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
gatgtaaaat tcccgggtgg tggtcagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgcggc 180
aggcgtcagc ctatcccccga ggcacgtcgg tccgagggca ggtcctgggc tcagcccggg 240
tacccttggc ctctttatgg caatgagggc tgtgggtggg cagggtggct cctgtcccc 300
cgcggatctc ggccatcttg gggccaaaat gatccccggc gtaggtcccg caatctgggt 360
aaggatcatc ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgtc 420
ggcgccccag taggtggcgt cgccagggcc ttggcgcagt gcgtcagggc cctggaggac 480
ggaatcaact atgcaacagg gaatcttcct ggttgctcct tttctatctt cctacttgca 540
cttttctcgt gcttgacaac accggcatcc gct 573
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<210> 143

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 143

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atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
gacgttaagt tcccgggtgg tggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccagggt tgggtgtgcg cgcgactagg aagacttcgg agcggtcgca acctcgtggg 180
agacgccagc ctatcccccga ggcacgtcga tctgagggaa ggtcctgggc tcagcccggg 240
tatccatggc ctctttacgg taatgagggt tgcgggtggg cgggatggct cctgtcaccc 300
cgtggctctc gaccgtcttg ggggtccaat gatccccggc gaagggtccc caacttgggt 360
aaggatcatc atactctaac ttgcgggttc gccgatctca tgggatacat cccgctcgtc 420
ggcgcccccg tgggcggcgt cgccagggcc ctggcacatg gtgttagggc tgtggaggac 480
gggatcaatt atgcaacagg gaatcttccc ggttgctcct tctctatctt cctcttggca 540
cttctttcgt gcctaactgt tcccacctcg gcc 573
```

<210> 144

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 144

```
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60
gacgttaagt tcccggggcg tggccagatc gttggcggag tttacttggt gccgcgcagg 120
ggccccagat tgggtgtgcg cacaactagg aagacttcgg agcggtcgca acctcgtggg 180
agacgtcagc ctatcccccga ggcacgtcga tctgagggaa ggtcctgggc tcaaccggg 240
```

```

taccatggc ctctttacgg taacgagggg tgcggggtggg caggatggct cttgtcaccc 300
cgtggctctc gaccgtcttg gggcccaaagt gatccccggc gaaggtcccg caacttgggt 360
aaggtcatcg ataccctaac ctgcggtctt gccgacctca tgggatacat cccgctcgta 420
ggcgcccccg tgggcggcgt cgccagggcc ctgagcgatg gcgttagggc tctggaggac 480
gggattaatt atgcaacagg gaaccttccc gggtgctctt tttctatctt cctcttggca 540
cttctttcgt gcctgactgt tcccgcctcg gcc

```

<210> 145

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 145

```

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60
gacgttaagt tcccgggtgg cgccagatc gttggcgagg tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgct cgcgactagg aagacttcgg agcggtcgca acctcgtggg 180
aggcgccagc ctatcccaa ggcgcgccaa ctcgagggtg ggtcctgggc tcagcctggg 240
tacccttggc ccctttacgg caatgagggc tgcggggtggg cgggatggct cctgtcaccc 300
cgtggctctc ggccgtcttg gggcccgaat gatccccggc ggaggtcccg caacttgggt 360
aaggtcatcg ataccctaac ttgcggtctt gccgacctca tgggatacat cccggtcgta 420
ggcgcccccg tgggtggcgt cgccagagcc ctggcgcatg gcgtcaggct tctggaggac 480
gggggtcaatt atgcaacagg gaatcttccc gggtgctctt tctctatctt cctcttggca 540
ctgctctcgt gcctgactgt tcccgtctcg gcc

```

<210> 146

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 146

```

atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgttaagt tcccggggcg tggtcagatc gttggtggag tctacttggt gccgcgcagg 120
ggccctaggt tgggtgtgct cgcgactcgg aagacttcag aacggtcgca acccgtggg 180
cgcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg cagggtgggt gctctcccc 300
cgaggctctc ggccctaatt gggcccgaat gaccccgcc gaaagtcgct caatttgggt 360
aaggtcatcg ataccctaac gtgcggtatc gccgacctca tggggtacat cccgctcgta 420
ggcgcccccg ttggggggcgt cgcaagggcc cttgcacatg gtgtgagggt tcttgaggac 480
gggggtaaact atgcaacggg gaatttgccc gggtgctctt tctctatctt tatccttgca 540
cttctctcgt gcctgacctt cccggcctct gca

```

<210> 147
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA5

<400> 147
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttgggtggag tttacttggt gccgcgcagg 120
ggccctagat tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccctggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggggtggg caggggtggtt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc gaaaatcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcgcccccg ttgggggcgt cgcaagggcc ctgcacatg gtgtgagggt tcttgaggac 480
ggggtaaact atgcaacagg gaatttgccc ggttgctctt tctctatctt tacccttgca 540
cttctctcgt gcttgaccgt cccagcctct gca 573

<210> 148
<211> 573
<212> DNA
<213> Homo sapiens

<220>
<223> Individual Isolate: SA7

<400> 148
atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttgggtggag tttacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccctggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggggtggg caggggtggtt gctctcccc 300
cgaggctctc ggcctaattg gggccccaat gacccccggc gaaagtcgcg caatttgggt 360
aaggtcatcg acaccctaac atgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcgcccccg ttgggggcgt cgcaagggct ctgcacacg gtgtgagggt tcttgaggac 480
ggggtaaatt acgcaacagg gaatctgccc ggttgctctt tctctatctt tacccttgca 540
cttctctcgt gcttgaccgt cccagcctcc gca 573

<210> 149
<211> 573
<212> DNA
<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 149

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atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaacct ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacttggt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcgg aacggtcgca acccgtggg 180
cggcgccagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg cagggtggt gctctcccc 300
cgaggctctc ggctaattg gggccccaat gaccccggc ggaagtcgc caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgacctca tggggtacat cccgctcgta 420
ggcgggcccc ttgggggcgt cgcaagggct ctgcacacg gtgtgagggt tcttgaggac 480
ggggtaaact acgcaacagg gaatttgccc ggttgcctt tctctatct tacccttgca 540
cttctttcct gtctgatcat cccggcctct gca 573
```

<210> 150

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA3

<400> 150

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atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag ttacttggt gccgcgcagg 120
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca acccgtgga 180
cggcgccagc ctattcccaa ggctcgccag cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcgagtggg cagggtggt gctctcccc 300
cgaggctctc ggctaagtg gggccccaac gaccccggc ggaaatcgc caatttgggt 360
aaggtcatcg ataccctaac gtgcggattc gccgatctca tggggtacat cccgctcgta 420
ggcgggcccc ttgggggcgt cgcaagggct ctgcacatg gtgtgagggt tcttgaggac 480
ggggtaaact acgcaacagg gaatttacct ggttgcctt tctctatct tacccttgca 540
cttctttcat gcctgaccgt cccggcctct gca 573
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<210> 151

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 151

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atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
```

```

gacgtcaagt tccccgggcgg tggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcaactcgg aagacttcag aacggtcgca accccgtgga 180
cggcgtcagc ctatcccaa ggcgcgccag cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccctttatgc caatgagggc ctcggtggg cagggtggtt gctctcccc 300
cgaggctctc ggccctaattg gggccccaat gacccccggc ggaaatcgcg caacttgggt 360
aaggtcatcg ataccctgac gtgcggttc gccgacctca tggggtacat cccgctcgta 420
ggcgccccg ttgggggct cgcaagggct ctgcacacg gtgtgagggt ccttgaggac 480
ggggtaaaact atgcaacagg gaatttacc gggtgctctt tctctatctt tatccttgca 540
cttctttcat gcctgactgt cccgacctct gcc 573

```

<210> 152

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA6

<400> 152

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atgagcacga atcctaaacc tcaaagaaaa acccaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tccccgggcgg tggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctcgta tgggtgtgcg cgcgactcgg aagacttcgg aacggtcgca accccgtgga 180
cggcgtcagc ctattcccaa ggcgcgccaa tccgcgggtc ggtcctgggg tcaaccggg 240
tacccttggc ccctttacgc caatgagggc ctcggtggg cagggtggtt gctctcccc 300
cgaggctctc ggccctaattg gggccccaat gacccccggc gaaaatcgcg caatttgggt 360
aaggtcatcg ataccctaac gtgcggttc gccgacctca tggggtacat cccgctcgta 420
ggcgccccg ttgggggct cgcaagggct ctgcacacg gtgtgagggt tcttgaggac 480
ggggtaaaact atgcaacagg gaatttgccc gggtgctctt tctctatctt tgccttgca 540
cttctctcgt gcctaaccgt ccctgcctct gca 573

```

<210> 153

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA11

<400> 153

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atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg ccgcccacag 60
gacgtcaagt tccccgggcgg tggtcagatc gttggtggag tttacttggt gccgcgcagg 120
ggccctaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180
cggcgtcagc ctattcccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaaccggg 240
tacccttggc ccttttacgc caatgagggc ctcggtggg cagggtggtt gctctcccc 300
cgaggctctc ggccctaactg gggccccaat gacccccggc gaagatcgcg caatttgggc 360
aaggtcatcg ataccctaac gtgcggttc gccgacctca tggggtacat cccgctcgta 420

```

ggcgccccg ttgggggcgt cgcaagggcc ctgcacacg gtgtgagagc tcttgaggac 480
 ggggtaaatt atgcaacagg gaatcttccc ggttgctctt tctccatctt tatecttgca 540
 cttctctcgt gcttgaccgt cccggccact gca 573

<210> 154
 <211> 573
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Individual Isolate: HK2

<400> 154
 atgagcacac ttccaaaacc ccaaagaaaa accaaaagaa acaccaaccg tcgcccacg 60
 gacgtcaagt tcccgggtgg cggtcagatc gttggcggag ttacttggt gccgcgcagg 120
 ggcccccggt tgggtgtgcg cgcgacgaga aagacttccg agcgatccca gccagaggc 180
 aggcgccaac ctatacaaaa ggcgcgccag cccagggca ggcaactgggc tcagcccga 240
 tacccttggc ctctttatgg aaacgagggc tgtgggtggg caggttggct cctgtcccc 300
 cgcggtccc ggccacattg gggccccaat gacccccggc gtcgatcccg gaatttgggt 360
 aaggtcatcg ataccctaac gtgtgggttc gccgatctca tggggtacat tccgctcgtg 420
 ggcgcgctt tgggcggcgt cgcggtgcg ctgcacatg gcgtgagggc aatcgaggac 480
 gggatcaatt atgcaacagg gaatctcccc ggttgctctt tctctatctt ccttttggca 540
 ctactctcgt gcctcacaac gccagcttcg gct 573

<210> 155
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK7

<400> 155
 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15
 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45
 Pro Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly

65		70		75		80									
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 156
 <211> 191
 <212> PRT
 <213> Homo sapiens

 <220>
 <223> Individual Isolate: US11

 <400> 156
 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15
 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45
 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 157

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S14

<400> 157

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 158

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 158

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro

100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu		
130	135	140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala		
180	185	190

<210> 159
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S18

<400> 159
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 160

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR4

<400> 160

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
 130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
 180 185 190

<210> 161

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 161

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu

130	135	140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155 160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Pro Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala		
180	185	190

<210> 162
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S45

<400> 162

Met Ser Thr Asn Pro Lys Pro Gln Arg Ala Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80
His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
 180 185 190

<210> 163

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 163

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
 130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 164

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US6

<400> 164

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile

165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala		
180	185	190
<210> 165		
<211> 191		
<212> PRT		
<213> Homo sapiens		
<220>		
<223> Individual Isolate: P10		
<400> 165		
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn		
1	5	10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly		
20	25	30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala		
35	40	45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly		
65	70	75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp		
85	90	95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro		
100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu		
130	135	140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155 160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 166

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 166

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 167
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: T10

<400> 167

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Ala	Arg	Gln	Pro	Glu	Gly	Arg	Ala	Trp	Ala	Gln	Pro	Gly
65					70					75				80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Met	Gly	Trp	Ala	Gly	Trp
			85						90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
			165					170						175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Ile	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 168
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<223> Individual Isolate: SW2

<400> 168

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
	35						40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Ala	Arg	Gln	Pro	Glu	Gly	Arg	Ala	Trp	Ala	Gln	Pro	Gly
65					70				75					80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Met	Gly	Trp	Ala	Gly	Trp
			85						90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165				170					175		
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Ile	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 169
<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: IND3

<400> 169

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 170

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: IND8

<400> 170

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
65 70 75 80

His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 171

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 171

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	

Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		

Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			

Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				

Ile	Pro	Lys	Ala	Arg	His	Pro	Glu	Gly	Arg	Ala	Trp	Ala	Gln	Pro	Gly
65					70					75				80	

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp
				85					90					95	

Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
			100					105					110		

Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			

Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Leu
	130					135					140				

Gly	Gly	Ala	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	

Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165				170						175	

Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Ile	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 172

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 172

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala
180 185 190

<210> 173

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK5

<400> 173

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1	5	10	15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly			
20	25	30	
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala			
35	40	45	
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro			
50	55	60	
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly			
65	70	75	80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp			
85	90	95	
Leu Leu Ser Pro His Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro			
100	105	110	
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys			
115	120	125	
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu			
130	135	140	
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp			
145	150	155	160
Gly Val Asn Tyr Ala Thr Gly Asn Ile Pro Gly Cys Ser Phe Ser Ile			
165	170	175	
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Val Ser Ala			
180	185	190	

<210> 174

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK4

<400> 174

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
180 185 190

<210> 175

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: P8

<400> 175

Met Ser Thr Thr Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ser
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65 70 75 80

His Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Leu
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala
 180 185 190

<210> 176

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 176

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala

35	40	45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly		
65	70	75 80
Tyr Pro Trp Pro Leu Tyr Gly Asp Glu Gly Met Gly Trp Ala Gly Trp		
	85 90	95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro		
	100 105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
	115 120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu		
	130 135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150 155	160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
	165 170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala		
	180 185	190

<210> 177

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 177

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn		
1	5	10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly		
	20 25	30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala		
	35 40	45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Ser Leu Ala Asp Leu Met Gly Tyr Val Pro Val Val Gly Gly Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
180 185 190

<210> 178

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 178

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Pro Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
180 185 190

<210> 179

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 179

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Ile Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly

65		70		75		80									
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Ser	Asp	Pro
			100					105					110		
Arg	His	Arg	Ser	Arg	Asn	Val	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Leu
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Ile	Thr	Thr	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 180

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 180

Met	Ser	Thr	Ile	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Asp	Arg	Arg	Ser	Thr	Gly	Lys	Ser	Trp	Gly	Lys	Pro	Gly
65					70					75				80	

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala
180 185 190

<210> 181

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 181

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Arg Val Ile Asp Thr Ile Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala
180 185 190

<210> 182

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US1

<400> 182

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro

100	105	110
Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val		
130	135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Ala Thr Val Pro Val Ser Ala		
180	185	190

<210> 183
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: DK11

<400> 183

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Pro Trp Gly Lys Pro Gly
65 70 75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala
180 185 190

<210> 184

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW3

<400> 184

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala
 180 185 190

<210> 185

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 185

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Ser Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro
 100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val

130	135	140																	
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp				
145					150					155					160				
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile				
				165					170					175					
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Cys	Thr	Val	Pro	Val	Ser	Ala					
			180					185					190						

<210> 186
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S83

<400> 186

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn				
1				5					10					15					
Arg	Arg	Pro	Gln	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly				
			20					25					30						
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala				
	35					40					45								
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro				
	50					55					60								
Ile	Pro	Lys	Asp	Arg	Arg	Thr	Thr	Gly	Lys	Ser	Trp	Gly	Arg	Pro	Gly				
65				70					75					80					
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp				
			85					90					95						
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Thr	Asp	Pro				
		100					105					110							
Arg	His	Lys	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys				
	115					120					125								
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Val				
130						135				140									

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Ser Val Pro Val Ser Ala
 180 185 190

<210> 187

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 187

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
 100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
 145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
180 185 190

<210> 188

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 188

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile

	165		170		175
Phe	Leu	Leu	Ala	Leu	Phe
				Ser	Cys
			Leu	Val	His
				Pro	Ala
					Ala
					Ser
	180		185		190

<210> 189
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: S2

<400> 189
 Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
 1 5 10 15
 Arg Arg Pro Gln Asp Ile Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45
 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
 65 70 75 80
 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
 85 90 95
 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
 100 105 110
 Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125
 Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
 130 135 140
 Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
 145 150 155 160
 Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
180 185 190

<210> 190

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK12

<400> 190

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser
180 185 190

<210> 191
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z4

<400> 191

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Met	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				
Ile	Pro	Lys	Ala	Arg	Gln	Pro	Glu	Gly	Arg	Ser	Trp	Ala	Gln	Pro	Gly
65					70					75				80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Ile	Val	Gly	Ala	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Val	Glu	Asp
145					150					155				160	
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
			165					170					175		
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 192
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: Z8

<400> 192

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	

Arg	Arg	Pro	Met	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		

Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
	35						40					45			

Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				

Ile	Pro	Lys	Ala	Arg	Arg	Ser	Glu	Gly	Arg	Ser	Trp	Ala	Gln	Pro	Gly
65					70					75				80	

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
			85						90					95	

Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
			100					105					110		

Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			

Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Val
	130					135					140				

Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Val	Glu	Asp
145					150					155				160	

Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	

Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 193
 <211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z1

<400> 193

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	

Arg	Arg	Pro	Met	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		

Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
		35					40					45			

Ala	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				

Ile	Pro	Lys	Ala	Arg	Arg	Ser	Glu	Gly	Arg	Ser	Trp	Ala	Gln	Pro	Gly
65					70					75				80	

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	

Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
			100					105					110		

Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115				120					125			

Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Val
	130					135					140				

Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Val	Glu	Asp
145					150					155				160	

Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	

Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Thr	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 194

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z5

<400> 194

Met	Ser	Thr	Asn	Pro	Lys	Pro	Gln	Arg	Lys	Thr	Lys	Arg	Asn	Thr	Asn
1				5					10					15	
Arg	Arg	Pro	Met	Asp	Val	Lys	Phe	Pro	Gly	Gly	Gly	Gln	Ile	Val	Gly
			20					25					30		
Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
			35					40					45		
Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
		50				55					60				
Ile	Pro	Gln	Ala	Arg	Arg	Ser	Glu	Gly	Arg	Ser	Trp	Ala	Gln	Pro	Gly
	65				70					75				80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Gln	Asn	Asp	Pro
			100					105					110		
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
			115					120					125		
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Ala	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Leu	Glu	Asp
	145				150					155				160	
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Leu	Leu	Ala	Leu	Phe	Ser	Cys	Leu	Thr	Thr	Pro	Ala	Ser	Ala	
			180					185					190		

<210> 195

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 195

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Thr Ser Ala
180 185 190

<210> 196

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 196

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 197

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 197

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1	5	10	15
Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly			
20	25	30	
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala			
35	40	45	
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro			
50	55	60	
Ile Pro Lys Ala Arg Gln Leu Glu Gly Arg Ser Trp Ala Gln Pro Gly			
65	70	75	80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp			
85	90	95	
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro			
100	105	110	
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys			
115	120	125	
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val			
130	135	140	
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Leu Leu Glu Asp			
145	150	155	160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile			
165	170	175	
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala			
180	185	190	

<210> 198

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA4

<400> 198

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 199

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA5

<400> 199

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
 100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
 130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
 180 185 190

<210> 200

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA7

<400> 200

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala

35	40	45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly		
65	70	75 80
Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp		
85	90	95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro		
100	105	110
Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val		
130	135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155 160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala		
180	185	190

<210> 201

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 201

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Leu Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
 65 70 75 80
 Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95
 Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
 100 105 110
 Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125
 Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
 130 135 140
 Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
 145 150 155 160
 Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
 165 170 175
 Phe Ile Leu Ala Leu Leu Ser Cys Leu Ile Ile Pro Ala Ser Ala
 180 185 190

<210> 202

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA3

<400> 202

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15
 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45
 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Glu Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 203

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 203

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly

65		70		75		80									
Tyr	Pro	Trp	Pro	Leu	Tyr	Ala	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Asn	Trp	Gly	Pro	Asn	Asp	Pro
			100					105					110		
Arg	Arg	Lys	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Leu	Val	Gly	Gly	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155					160
Gly	Val	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Ile	Leu	Ala	Leu	Leu	Ser	Cys	Leu	Thr	Val	Pro	Thr	Ser	Ala	
		180						185					190		

<210> 204
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Individual Isolate: SA6

<400> 204
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Gln Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Met Gly Val Arg Ala
35 40 45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Ala Arg Gln Ser Ala Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Val Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 205

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA11

<400> 205

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Phe Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Thr Ala
180 185 190

<210> 206

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 206

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Thr Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Pro Gln Gly Arg His Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro His Trp Gly Pro Asn Asp Pro

100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu		
130	135	140
Gly Gly Val Ala Ala Ala Leu Ala His Gly Val Arg Ala Ile Glu Asp		
145	150	155
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala		
180	185	190

<210> 207
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 207
 gcgtccgggt tctggaagac ggcgtgaact atgcaacagg 40

<210> 208
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 208
 aggctttcat tgcagttcaa ggccgtgcta ttgatgtgcc 40

<210> 209
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 209
 aagacggcgt gaactatgca acaggaacc ttctggttg 40

<210> 210
 <211> 40
 <212> DNA

<213> Homo sapiens

<400> 210

agttcaaggc cgtgctattg atgtgccaac tgccgttggt 40

<210> 211

<211> 40

<212> DNA

<213> Homo sapiens

<400> 211

aagacggcgt gaattctgca acaggggaacc ttcctggttg 40

<210> 212

<211> 40

<212> DNA

<213> Homo sapiens

<400> 212

agttcaaggc cgtggaattc atgtgccaac tgccgttggt 40

<210> 213

<211> 42

<212> DNA

<213> Homo sapiens

<400> 213

arctycgacg tyacatcgay ctgctygytg gragygccac cc 42

<210> 214

<211> 31

<212> DNA

<213> Homo sapiens

<400> 214

rcargcrtc ttggayatga tcgctggwgc y 31

<210> 215

<211> 42

<212> DNA

<213> Homo sapiens

<400> 215

cratacgacr ycaygtcgay ttgctcgttg gggcggctry yt	42
<210> 216	
<211> 31	
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<213> Homo sapiens	
<400> 216	
rcaagctrtrc rtggayrtgg trrcrggrgc c	31
<210> 217	
<211> 40	
<212> DNA	
<213> Homo sapiens	
<400> 217	
ttgcggackc acatygacat ggtygtgatg tccgccacgc	40
<210> 218	
<211> 43	
<212> DNA	
<213> Homo sapiens	
<400> 218	
gatgcgcgtt cccgaggtca tcwtagacat crtyrgcggr gcd	43
<210> 219	
<211> 54	
<212> DNA	
<213> Homo sapiens	
<400> 219	
aatggcaccy tgcrcgtgctg gatacaagtr acacctaatz tggctgtgaa acac	54
<210> 220	
<211> 31	
<212> DNA	
<213> Homo sapiens	
<400> 220	
tgarctagyc ctysargtyg tcttcggygg y	31

<210> 221
 <211> 54
 <212> DNA
 <213> Homo sapiens

 <400> 221
 gccaacgtct ctcgatgttg ggtgccggtt gcccacaatc tcgccataag tcaa 54

 <210> 222
 <211> 46
 <212> DNA
 <213> Homo sapiens

 <400> 222
 aagggcctgc gagcacacat cgatatcatc gtgatgtctg ctacgg 46

 <210> 223
 <211> 45
 <212> DNA
 <213> Homo sapiens

 <400> 223
 ttggtgcgca tcccggaagt catcttgat attgttacag gaggt 45

 <210> 224
 <211> 40
 <212> DNA
 <213> Homo sapiens

 <400> 224
 agtcaggtay gtcggagcaa ccaccgcytc gatacgcagt 40

 <210> 225
 <211> 46
 <212> DNA
 <213> Homo sapiens

 <400> 225
 agccttcacg ttcagacckc gtcgccatca aacrgtccag acctgt 46

 <210> 226
 <211> 75
 <212> DNA

<213> Homo sapiens

<400> 226

tccccgcgcyg tgggtatggt ggtrgcgcac rtyctgcgdy tgccccagac cktgttygac 60
atamtrgcyg gggcc 75

<210> 227

<211> 39

<212> DNA

<213> Homo sapiens

<400> 227

acgccggtga cgcctacagt ggctgtcgca cccccgggc 39

<210> 228

<211> 42

<212> DNA

<213> Homo sapiens

<400> 228

atgagggtcc ccacagcctt tctcgacatg gttgccggag gc 42

<210> 229

<211> 40

<212> DNA

<213> Homo sapiens

<400> 229

cgcgccctat cccaacgcac cgttagagtc catgctgcagg 40

<210> 230

<211> 49

<212> DNA

<213> Homo sapiens

<400> 230

tcagatctta cggatcccct ctatcctagg tgacttgctc accgggggt 49

<210> 231

<211> 54

<212> DNA

<213> Homo sapiens

<400> 231
cagtcacgct gctgggtggc ccttactccc accgtggcgg ygycttatat cggt 54

<210> 232
<211> 31
<212> DNA
<213> Homo sapiens

<400> 232
tagcactctg gtrgayctac tcrctggagg g 31

<210> 233
<211> 54
<212> DNA
<213> Homo sapiens

<400> 233
aagtctacat gctgggtgtc tctcaccccc accgtggctg cgcaacatct gaat 54

<210> 234
<211> 31
<212> DNA
<213> Homo sapiens

<400> 234
aggcgccatg gtcgacctgc ttgcaggcgg c 31

<210> 235
<211> 43
<212> DNA
<213> Homo sapiens

<400> 235
tcagccccga vyytcggagc ggtcacggct cctcttcgga ggg 43

<210> 236
<211> 44
<212> DNA
<213> Homo sapiens

<400> 236
tgytacggat yccccargtg gtcathgaca tcatwgccgg ggsc 44

<210> 237
<211> 40
<212> DNA
<213> Homo sapiens

<400> 237
cataccaaat gcttccacgc ccgcaacggg attccgcagg

40

<210> 238
<211> 37
<212> DNA
<213> Homo sapiens

<400> 238
tcttcttgcg ggcgccgcag tggtttgctc atccctg

37

<210> 239
<211> 52
<212> DNA
<213> Homo sapiens

<400> 239
atctagcatc ttgagggtac ctgagatttg tgcgagtgtg atatttggtg gc

52

<210> 240
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)..
<223> "Ala" or "Thr"

<220>
<221> SITE
<222> (24)..
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (26)
<223> "Val" or "Met"

<400> 240

Trp Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu
1 5 10 15

Thr His Asn Leu Arg Xaa His Xaa Asp Xaa Ile Val Met Ala Ala Thr
20 25 30

Val

<210> 241

<211> 33

<212> PRT

<213> Homo sapiens

<400> 241

Trp Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu
1 5 10 15

Thr Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr
20 25 30

Val

<210> 242

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> "Ser" or "Thr"

<220>

<221> SITE

<222> (11)

<223> "Arg" or "Gln"

<220>

<221> SITE

<222> (12)

<223> "Arg" or "Gln"

<400> 242

Trp Ile Pro Val Xaa Pro Asn Val Ala Val Xaa Xaa Pro Gly Ala Leu
 1 5 10 15

Thr Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr
 20 25 30

Leu

<210> 243
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> "Pro" or "Ser"

<220>
 <221> SITE
 <222> (33)
 <223> "Leu" or "Met"

<400> 243
 Trp Thr Xaa Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr
 1 5 10 15

Thr Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr
 20 25 30

Xaa

<210> 244
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> "Thr" or "Ala"

<220>
 <221> SITE

<222> (13)
<223> "Gly" or "Ala" or "Ser" or "Val" or "Thr"

<220>
<221> SITE
<222> (14)
<223> "Ser" or "Thr" or "Asn"

<220>
<221> SITE
<222> (15)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (16)
<223> "Pro" or "Ser"

<220>
<221> SITE
<222> (18)
<223> "Thr" or "Lys"

<220>
<221> SITE
<222> (19)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (22)
<223> "Arg" or "His"

<220>
<221> SITE
<222> (32)
<223> "Ala" or "Val" or "Thr"

<400> 244
Trp Val Ala Leu Xaa Pro Thr Leu Ala Ala Arg Asn Xaa Xaa Xaa Xaa
1 5 10 15

Thr Xaa Xaa Ile Arg Xaa His Val Asp Leu Leu Val Gly Ala Ala Xaa
20 25 30

Phe

<210> 245
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> "Ala" or "Pro"

<220>
 <221> SITE
 <222> (4)
 <223> "Val" or "Met"

<220>
 <221> SITE
 <222> (5)
 <223> "Thr" or "Ala"

<220>
 <221> SITE
 <222> (17)
 <223> "Thr" or "Ala"

<220>
 <221> SITE
 <222> (18)
 <223> "Thr" or "Ala"

<220>
 <221> SITE
 <222> (23)
 <223> "His" or "Tyr"

<400> 245
 Trp Val Xaa Xaa Xaa Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro
 1 5 10 15

 Xaa Xaa Gln Leu Arg Arg Xaa Ile Asp Leu Leu Val Gly Ser Ala Thr
 20 25 30

 Leu

<210> 246

<211> 33
<212> PRT
<213> Homo sapiens

<400> 246
Trp Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro
1 5 10 15
Leu Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Leu

<210> 247
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> "Val" or "Ala"

<220>
<221> SITE
<222> (11)
<223> "Ser" or "Pro"

<220>
<221> SITE
<222> (18)
<223> "Asp" or "Glu"

<220>
<221> SITE
<222> (20)
<223> "Leu" or "Ile"

<400> 247
Trp Val Ala Leu Thr Pro Thr Val Ala Xaa Xaa Tyr Ile Gly Ala Pro
1 5 10 15
Leu Xaa Ser Xaa Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Val

<210> 248
<211> 33
<212> PRT
<213> Homo sapiens

<400> 248
Trp Val Ser Leu Thr Pro Thr Val Ala Ala Gln His Leu Asn Ala Pro
1 5 10 15
Leu Glu Ser Leu Arg Arg His Val Asp Leu Met Val Gly Gly Ala Thr
20 25 30

Leu

<210> 249
<211> 33
<212> PRT
<213> Homo sapiens

<400> 249
Trp Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro
1 5 10 15
Leu Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr
20 25 30

Met

<210> 250
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> "Gln" or "His"

<220>
<221> SITE
<222> (12)

<223> "Asn" or "Ser" or "Thr"

<220>

<221> SITE

<222> (13)

<223> "Leu" or "Phe"

<220>

<221> SITE

<222> (23)

<223> "Ala" or "Val"

<400> 250

Trp Val Xaa Ile Thr Pro Thr Leu Ser Ala Pro Xaa Xaa Gly Ala Val
1 5 10 15

Thr Ala Pro Leu Arg Arg Xaa Val Asp Tyr Leu Ala Gly Gly Ala Ala
20 25 30

Leu

<210> 251

<211> 33

<212> PRT

<213> Homo sapiens

<400> 251

Trp His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro
1 5 10 15

Ala Thr Gly Phe Arg Arg His Val Asp Leu Leu Ala Gly Ala Ala Val
20 25 30

Val

<210> 252

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> "Val" or "Ala"

<220>

<221> SITE

<222> (18)

<223> "Glu" or "Gln"

<400> 252

Thr Leu Thr Met Ile Leu Ala Tyr Ala Ala Arg Val Pro Glu Leu Xaa
1 5 10 15

Leu Xaa Val Val Phe Gly Gly
20

<210> 253

<211> 23

<212> PRT

<213> Homo sapiens

<400> 253

Thr Thr Thr Met Leu Leu Ala Tyr Leu Val Arg Ile Pro Glu Val Ile
1 5 10 15

Leu Asp Ile Val Thr Gly Gly
20

<210> 254

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> "Ala" or "Thr"

<220>

<221> SITE

<222> (4)

<223> "Met" or "Leu"

<220>

<221> SITE

<222> (9)

<223> "Ala" or "Val"

<220>

<221> SITE
<222> (17)
<223> "Ile" or "Leu"

<220>
<221> SITE
<222> (20)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (21)
<223> "Ser" or "Gly"

<400> 254
Thr Xaa Thr Xaa Ile Leu Ala Tyr Xaa Met Arg Val Pro Glu Val Ile
1 5 10 15

Xaa Asp Ile Xaa Xaa Gly Ala
20

<210> 255
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (16)
<223> "Leu" or "Val"

<220>
<221> SITE
<222> (20)
<223> "Ile" or "Leu"

<400> 255
Ala Val Gly Met Val Val Ala His Xaa Leu Arg Leu Pro Gln Thr Xaa
1 5 10 15

Phe Asp Ile Xaa Ala Gly Ala
20

<210> 256
<211> 23
<212> PRT
<213> Homo sapiens

<220>
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<222> (2)
<223> "Ala" or "Thr"

<220>
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<222> (6)
<223> "Val" or "Leu"

<220>
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<222> (12)
<223> "Ile" or "Leu"

<220>
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<222> (16)
<223> "Val" or "Ile"

<220>
<221> SITE
<222> (17)
<223> "Val" or "Leu" or "Met"

<220>
<221> SITE
<222> (19)
<223> "Met" or "Val"

<220>
<221> SITE
<222> (21)
<223> "Ala" or "Thr"

<400> 256
Thr Xaa Ala Leu Val Xaa Ser Gln Leu Leu Arg Xaa Pro Gln Ala Xaa
1 5 10 15

Xaa Asp Xaa Val Xaa Gly Ala
20

<210> 257
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (6)
<223> "Val" or "Ile" or "Met"

<220>
<221> SITE
<222> (12)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (16)
<223> "Ile" or "Val"

<400> 257
Thr Xaa Ala Leu Val Xaa Ala Gln Leu Leu Arg Xaa Pro Gln Ala Xaa
1 5 10 15

Leu Asp Met Ile Ala Gly Ala
20

<210> 258
<211> 23
<212> PRT
<213> Homo sapiens

<400> 258
Thr Thr Thr Leu Leu Leu Ala Gln Ile Met Arg Val Pro Thr Ala Phe
1 5 10 15

Leu Asp Met Val Ala Gly Gly
20

<210> 259
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> "Leu" or "Val"

<220>
<221> SITE
<222> (21)
<223> "Thr" or "Ala"

<400> 259
Thr Thr Thr Leu Xaa Leu Ala Gln Val Met Arg Ile Pro Ser Thr Leu
1 5 10 15

Val Asp Leu Leu Xaa Gly Gly
20

<210> 260
<211> 23
<212> PRT
<213> Homo sapiens

<400> 260
Thr Ala Thr Leu Val Leu Ala Gln Leu Met Arg Ile Pro Gly Ala Met
1 5 10 15

Val Asp Leu Leu Ala Gly Gly
20

<210> 261
<211> 23
<212> PRT
<213> Homo sapiens

<400> 261
Thr Ser Ala Leu Ile Met Ala Gln Ile Leu Arg Ile Pro Ser Ile Leu
1 5 10 15

Gly Asp Leu Leu Thr Gly Gly
20

<210> 262
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (5)
<223> "Val" or "Leu"

<220>
<221> SITE
<222> (9)
<223> "Leu" or "Met" or "Val"

<220>
<221> SITE
<222> (23)
<223> "Gly" or "Ala"

<400> 262
Xaa Thr Ala Leu Xaa Met Ala Gln Xaa Leu Arg Ile Pro Gln Val Val
1 5 10 15

Ile Asp Ile Ile Ala Gly Xaa
20

<210> 263
<211> 23
<212> PRT
<213> Homo sapiens

<400> 263
Thr Thr Thr Leu Val Leu Ser Ser Ile Leu Arg Val Pro Glu Ile Cys
1 5 10 15

Ala Ser Val Ile Phe Gly Gly
20

<210> 264

<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> "Thr" or "Pro"

<400> 264

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala
180 185 190

<210> 265

<211> 191
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (4)
 <223> "Thr" or "Asn"

 <220>
 <221> SITE
 <222> (10)
 <223> "Lys" or "Gln"

 <220>
 <221> SITE
 <222> (16)
 <223> "Ser" or "Asn"

 <220>
 <221> SITE
 <222> (70)
 <223> "Arg" or "His" or "Gln"

 <220>
 <221> SITE
 <222> (75)
 <223> "Ala" or "Thr"

 <220>
 <221> SITE
 <222> (81)
 <223> "His" or "Tyr"

 <220>
 <221> SITE
 <222> (87)
 <223> "Ala" or "Gly"

 <220>
 <221> SITE
 <222> (88)
 <223> "Asn" or "Asp"

 <220>
 <221> SITE
 <222> (91)
 <223> "Leu" or "Met"

<220>
<221> SITE
<222> (101)
<223> "Arg" or "His"

<220>
<221> SITE
<222> (106)
<223> "Ser" or "Asn"

<220>
<221> SITE
<222> (110)
<223> "Thr" or "Asn"

<220>
<221> SITE
<222> (142)
<223> "Gly" or "Ala"

<220>
<221> SITE
<222> (147)
<223> "Val" or "Ala"

<220>
<221> SITE
<222> (158)
<223> "Val" or "Leu"

<220>
<221> SITE
<222> (169)
<223> "Leu" or "Ile"

<220>
<221> SITE
<222> (173)
<223> "Ser" or "Pro"

<220>
<221> SITE
<222> (187)
<223> "Ile" or "Val" or "Thr"

<220>
<221> SITE

<222> (189)

<223> "Ala" or "Val"

<400> 265

Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Xaa Pro Glu Gly Arg Xaa Trp Ala Gln Pro Gly
65 70 75 80

Xaa Pro Trp Pro Leu Tyr Xaa Xaa Glu Gly Xaa Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Arg Pro Xaa Trp Gly Pro Xaa Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Xaa Pro Leu
130 135 140

Gly Gly Xaa Ala Arg Ala Leu Ala His Gly Val Arg Val Xaa Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 266

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)
 <223> "Asn" or "Thr"

 <220>
 <221> SITE
 <222> (10)
 <223> "Lys" or "Gln"

 <220>
 <221> SITE
 <222> (16)
 <223> "Asn" or "Ser"

 <220>
 <221> SITE
 <222> (49)
 <223> "Thr" or "Pro"

 <220>
 <221> SITE
 <222> (70)
 <223> "Arg" or "Gln" or "His"

 <220>
 <221> SITE
 <222> (75)
 <223> "Thr" or "Ala"

 <220>
 <221> SITE
 <222> (81)
 <223> "Tyr" or "His"

 <220>
 <221> SITE
 <222> (87)
 <223> "Gly" or "Ala"

 <220>
 <221> SITE
 <222> (88)
 <223> "Asn" or "Asp"

 <220>
 <221> SITE
 <222> (91)
 <223> "Met" or "Leu" or "Cys"

<220>
<221> SITE
<222> (101)
<223> "His" or "Arg"

<220>
<221> SITE
<222> (106)
<223> "Ser" or "Asn"

<220>
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<222> (110)
<223> "Thr" or "Asn"

<220>
<221> SITE
<222> (142)
<223> "Ala" or "Gly"

<220>
<221> SITE
<222> (147)
<223> "Val" or "Ala"

<220>
<221> SITE
<222> (158)
<223> "Leu" or "Val"

<220>
<221> SITE
<222> (169)
<223> "Ile" or "Leu"

<220>
<221> SITE
<222> (173)
<223> "Ser" or "Pro"

<220>
<221> SITE
<222> (187)
<223> "Thr" or "Ile" or "Val"

<220>
<221> SITE
<222> (189)

<223> "Val" or "Ala"

<400> 266

Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Xaa Pro Glu Gly Arg Xaa Trp Ala Gln Pro Gly
65 70 75 80

Xaa Pro Trp Pro Leu Tyr Xaa Xaa Glu Gly Xaa Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Arg Pro Xaa Trp Gly Pro Xaa Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Xaa Pro Leu
130 135 140

Gly Gly Xaa Ala Arg Ala Leu Ala His Gly Val Arg Val Xaa Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 267

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> "Asn" or "Ile"

<220>

<221> SITE

<222> (12)

<223> "Ile" or "Lys"

<220>

<221> SITE

<222> (48)

<223> "Thr" or "Ala"

<220>

<221> SITE

<222> (71)

<223> "Ser" or "Pro"

<220>

<221> SITE

<222> (110)

<223> "Ser" or "Thr" or "Asn"

<220>

<221> SITE

<222> (129)

<223> "Gly" or "Ser"

<220>

<221> SITE

<222> (130)

<223> "Phe" or "Leu"

<220>

<221> SITE

<222> (137)

<223> "Ile" or "Val"

<220>

<221> SITE

<222> (142)

<223> "Ala" or "Gly"

<220>

<221> SITE

<222> (187)

<223> "Thr" or "Ile"

<220>

<221> SITE

<222> (189)

<223> "Ala" or "Val"

<400> 267

Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Ser Trp Gly Lys Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Xaa Asp Pro
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Leu
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 268

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE
 <222> (48)
 <223> "Thr" or "Ala"

<220>
 <221> SITE
 <222> (52)
 <223> "Thr" or "Ser"

<220>
 <221> SITE
 <222> (75)
 <223> "Pro" or "Ser"

<220>
 <221> SITE
 <222> (104)
 <223> "His" or "Arg"

<220>
 <221> SITE
 <222> (106)
 <223> "Asn" or "Thr"

<220>
 <221> SITE
 <222> (115)
 <223> "Lys" or "Arg"

<220>
 <221> SITE
 <222> (121)
 <223> "Lys" or "Arg"

<220>
 <221> SITE
 <222> (185)
 <223> "Cys" or "Phe" or "Ala"

<400> 268
 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
 35 40 45

Thr	Arg	Lys	Xaa	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
50						55					60				
Ile	Pro	Lys	Asp	Arg	Arg	Ser	Thr	Gly	Lys	Xaa	Trp	Gly	Lys	Pro	Gly
65					70					75				80	
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
				85					90					95	
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Xaa	Pro	Xaa	Trp	Gly	Pro	Thr	Asp	Pro
			100					105					110		
Arg	His	Xaa	Ser	Arg	Asn	Leu	Gly	Xaa	Val	Ile	Asp	Thr	Ile	Thr	Cys
		115					120					125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Val
	130					135					140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
145					150					155				160	
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
				165					170					175	
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Xaa	Thr	Val	Pro	Val	Ser	Ala	
			180					185					190		

<210> 269

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> "Asn" or "Ile"

<220>

<221> SITE

<222> (12)

<223> "Lys" or "Ile"

<220>

<221> SITE

<222> (48)

<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (52)
<223> "Thr" or "Ser"

<220>
<221> SITE
<222> (71)
<223> "Ser" "Thr" or "Pro"

<220>
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<222> (75)
<223> "Pro" or "Ser"

<220>
<221> SITE
<222> (78)
<223> "Lys" or "Arg"

<220>
<221> SITE
<222> (91)
<223> "Cys" or "Leu"

<220>
<221> SITE
<222> (104)
<223> "His" or "Arg"

<220>
<221> SITE
<222> (106)
<223> "Asn" or "Thr" or "Ser"

<220>
<221> SITE
<222> (110)
<223> "Thr" or "Asn" or "Ser"

<220>
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<222> (115)
<223> "Lys" or "Arg"

<220>
<221> SITE

<222> (119)
<223> "Leu" or "Val"

<220>
<221> SITE
<222> (121)
<223> "Lys" or "Arg"

<220>
<221> SITE
<222> (126)
<223> "Ile" or "Leu"

<220>
<221> SITE
<222> (129)
<223> "Gly" or "Ser"

<220>
<221> SITE
<222> (130)
<223> "Phe" or "Leu"

<220>
<221> SITE
<222> (137)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (142)
<223> "Ala" or "Gly"

<220>
<221> SITE
<222> (144)
<223> "Val" or "Leu"

<220>
<221> SITE
<222> (162)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (185)
<223> "Cys" or "Phe" or "Ala" or "Ile"

<220>
<221> SITE
<222> (186)
<223> "Thr" or "Ser"

<220>
<221> SITE
<222> (187)
<223> "Val" or "Ile" or "Thr"

<220>
<221> SITE
<222> (189)
<223> "Val" or "Ala"

<400> 269
Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn
1 5 10 15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45
Thr Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60
Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Xaa Trp Gly Xaa Pro Gly
65 70 75 80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Xaa Gly Trp Ala Gly Trp
85 90 95
Leu Leu Ser Pro Arg Gly Ser Xaa Pro Xaa Trp Gly Pro Xaa Asp Pro
100 105 110
Arg His Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys
115 120 125
Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Xaa
130 135 140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp
145 150 155 160
Gly Xaa Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Xaa Xaa Xaa Pro Xaa Ser Ala
180 185 190

<210> 270
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> "Ile" or "Val"

<220>
<221> SITE
<222> (186)
<223> "Ile" or "Val"

<400> 270
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile
1 5 10 15

Arg Arg Pro Gln Asp Xaa Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val
130 135 140

Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Ala	Leu	Glu	Asp
145					150				155					160	

Gly	Ile	Asn	Phe	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
			165					170					175		

Phe	Leu	Leu	Ala	Leu	Phe	Ser	Cys	Leu	Xaa	His	Pro	Ala	Ala	Ser
		180						185					190	

<210> 271
 <211> 191
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> "Ala" or "Thr"

<220>
 <221> SITE
 <222> (49)
 <223> "Thr" or "Ala"

<220>
 <221> SITE
 <222> (67)
 <223> "Gln" or "Lys"

<220>
 <221> SITE
 <222> (70)
 <223> "Arg" or "Gln"

<220>
 <221> SITE
 <222> (71)
 <223> "Ser" or "Pro" or "Leu"

<220>
 <221> SITE
 <222> (109)
 <223> "Gln" or "Pro"

<220>
 <221> SITE
 <222> (139)

<223> "Leu" or "Ile" or "Val"

<220>

<221> SITE

<222> (157)

<223> "Ala" or "Leu"

<220>

<221> SITE

<222> (158)

<223> "Leu" or "Val"

<220>

<221> SITE

<222> (162)

<223> "Ile" or "Val"

<220>

<221> SITE

<222> (182)

<223> "Phe" or "Leu"

<220>

<221> SITE

<222> (187)

<223> "Thr" or "Val"

<220>

<221> SITE

<222> (189)

<223> "Ala" or "Thr"

<400> 271

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Xaa Ala Arg Xaa Xaa Glu Gly Arg Ser Trp Ala Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Xaa Asn Asp Pro
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Xaa Val Gly Ala Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp
145 150 155 160

Gly Xaa Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
165 170 175

Phe Leu Leu Ala Leu Xaa Ser Cys Leu Thr Xaa Pro Xaa Ser Ala
180 185 190

<210> 272
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> "Lys" or "Gln"

<220>
<221> SITE
<222> (17)
<223> "Arg" or "Leu"

<220>
<221> SITE
<222> (44)
<223> "Leu" or "Met"

<220>
<221> SITE
<222> (71)
<223> "Pro" or "Ser"

<220>

<221> SITE
<222> (72)
<223> "Thr" or "Ala"

<220>
<221> SITE
<222> (85)
<223> "Phe" or "Leu"

<220>
<221> SITE
<222> (92)
<223> "Gly" or "Glu"

<220>
<221> SITE
<222> (106)
<223> "Asn" or "Ser"

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Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Ala
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Lys Ala Arg Gln Xaa Xaa Gly Arg Ser Trp Gly Gln Pro Gly
65 70 75 80

Tyr Pro Trp Pro Xaa Tyr Ala Asn Glu Gly Leu Xaa Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Xaa Trp Gly Pro Asn Asp Pro
100 105 110

Arg Arg Xaa Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Xaa Leu Glu Asp
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile
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Phe Xaa Leu Ala Leu Leu Ser Cys Leu Xaa Xaa Pro Xaa Xaa Ala
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			20					25					30		

Gly	Val	Tyr	Xaa	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Xaa	Gly	Val	Arg	Xaa
		35					40					45			

Xaa	Arg	Lys	Xaa	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
	50					55					60				

Ile	Pro	Xaa	Xaa	Arg	Xaa	Xaa	Xaa	Gly	Xaa	Xaa	Trp	Xaa	Xaa	Pro	Gly
65				70					75					80	

Xaa	Pro	Trp	Pro	Xaa	Tyr	Xaa	Xaa	Glu	Gly	Xaa	Xaa	Trp	Ala	Gly	Trp
			85						90					95	

Leu	Leu	Ser	Pro	Xaa	Gly	Ser	Xaa	Pro	Xaa	Trp	Gly	Xaa	Xaa	Asp	Pro
			100					105						110	

Arg	Xaa	Xaa	Ser	Arg	Asn	Xaa	Gly	Xaa	Val	Ile	Asp	Thr	Xaa	Thr	Cys
		115					120					125			

Xaa	Xaa	Ala	Asp	Leu	Met	Gly	Tyr	Xaa	Pro	Xaa	Val	Gly	Xaa	Pro	Xaa
	130					135					140				

Gly	Gly	Xaa	Ala	Xaa	Ala	Leu	Ala	His	Gly	Val	Arg	Xaa	Xaa	Glu	Asp
145					150					155				160	

Gly	Xaa	Asn	Xaa	Ala	Thr	Gly	Asn	Xaa	Pro	Gly	Cys	Xaa	Phe	Ser	Ile
			165					170						175	

Phe	Xaa	Leu	Ala	Leu	Xaa	Ser	Cys	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	
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Gly Val Tyr Xaa Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Xaa
35 40 45

Xaa Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
50 55 60

Ile Pro Xaa Xaa Arg Xaa Xaa Xaa Gly Xaa Xaa Trp Xaa Xaa Pro Gly
65 70 75 80

Xaa Pro Trp Pro Xaa Tyr Xaa Xaa Glu Gly Xaa Xaa Trp Ala Gly Trp
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Xaa Pro Xaa Trp Gly Xaa Xaa Asp Pro
100 105 110

Arg Xaa Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Xaa Val Gly Xaa Pro Xaa
130 135 140

Gly Gly Xaa Ala Xaa Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp
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Gly Xaa Asn Xaa Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile
165 170 175

Phe Xaa Leu Ala Leu Xaa Ser Cys Xaa Xaa Xaa Pro Xaa Xaa Xaa
180 185 190